je Kining Immal,

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 1707.—Vol. XXXVIII.

LONDON, SATURDAY, MAY 9, 1868.

(SUPPLEMENT) {STAMPED ... SIXPENCE, UNSTAMPED ... FIVEPENCE

MR. JAMES CROFTS, STOCK AND SHAREBROKER,
No. 1, FINCH LANE, CORNHILL.
(Established 1812.)

The Mining Share Market is in a position highly advantageous to buyers, the range of prices being low, which should encourage investments, especially in first-rate dividend mines, and of the most eligible for permanency of dividends a list will be furnished on application of shares select in quality and moderate in price. a his will be infinished as an investment, the shares were followed as an investment, the shares being now at a very moderate price, and the prospects of the mine most encouraging for further dividends.

Summer Hill...—These shares having ceased to be offered for sale, a re-action in their market value may be looked for.—Mr. Crofts may be consulted as to selling or holding the shares pending the next dividend.

Bankers: National Bank of Scotland, 37, Nicholas-lane, E.C. | Mas Fol Sale the following shares, free of commission: = 100 Anglo-Brazil., 148. 6d 56 Chontales, £2\frac{3}{2}. 15 Great Laxey, £17 2 6 15 Great Laxey, £17 2 6 15 Great Laxey, £17 2 6 15 Clifford, £5\frac{3}{2}. 25 Don Pedro, £2\frac{3}{2}. 26 Laxey, 28. 6d. 26 East Russell, 118. 6d. 27 Down to Marke Valley, £7. 50 East Grenville, \$7\$ 8 6d. 40 East Cara Brea, \$27\$. 50 East Grenville, \$7\$ 8 6d. 100 Frontino (call paid), \$128. 50 Frontino (call paid), \$128. 50

UIDE TO INVESTORS.—THE STOCK, SHARE, AND FINANCE REGISTER for May contains a comprehensive review of the Stock and Share Markets; a list of all the dividends paid in April; a comparative estimate of the profits of the several descriptions of shares; a selection of Investments paying 10 to 19 per cent.; and information for including investors.—6d, per copy, or 5s. annually, post free.

Published by Mr. Baker Lelean, at his offices, 11, Royal Exchange, London.

WILLIAM WA STOCK AND SHAREDBALER. No. 29, THREADNEEDLE STREET, LONDON, E.C. WARD

R. JOHN BATTERS, STOCK AND MINING SHAREBROKER, 18, THROGMORTON STREET, LONDON, E.C. MR. WILLIAM SEWARD, STOCK AND MINING SHAKE BROKER, 19, THROGMORTON STREET, LONDON, E.C. Every description of shares BOUGHT and SOLD at the best market prices.

Mr. Thomas spargo, stock and sharedealer, 224 & 225, gresham house, old broad street, london, byc

MR. J. B. REYNOLDS, 70 and 71, BISHOPSGATE
STREET WITHIN, LONDON, E.C., STOCK AND SHARE DEALER.
Mr. REYNOLDS recommends the purchase of shares in sound tim mines, the
working expenses of which are moderate—such as, for instance, West Wield
KITTY OF WEST ST. IVES, both these properties being certainly of more
morthary promise, but the shares in which are low, because of exceptional cir-

WANTED TO PURCHASE— 5 Great Wheal Vor. 25 25 Colquite and Calling-ton United.
45 Great North Downs.
4 Levant,
10 St. John del Rey.
110 Don Pedro.
200 West St. Ives.
50 West St. Ives.
10 Colquite and Calling. WANTED TO FORM
5 Great Wheal Vor.
50 W. Kitty (St. Agnes).
5 West Wheal Frances.
FOR SALE—
2 Carn Brea.
20 West Basset.
100 New Crow Hill.
100 New Crow Hill.
100 New Crow Hill.
100 New Crow Hill.

FOR SALE—

2 Care Brea.

2 Care Brea.

25 Prosper United.

30 Cuddra.

30 New Crow Hill.

30 Cuddra.

310 New Crow Hill.

32 West No. 190 New Crow Hill.

34 REYNOLDS beg to refer to his remarks on page 339.

Established Eleven Years.

Bankers: City Bank.

M ESSRS. POWELL AND MOSS, SHAREDEALERS, 78, OLD BROAD STREET, LONDON, E.C., and Mining Exchange, have large transactions in Prince of Wales, North Treskerby, Frontino, North Crofty, Chiverton, Chiverton Moor, and West Chiverton. Parties dealt with at a fair margin on the market price.

References exchanged.

Bankers: City Bank, Finch Lane.

JOHN RISLEY, (SWORN) STOCK AND SHAREBROKER, 48, THREADNEEDLE STREET, LONDON, E.C. Business transacted in the British Funds, Railway and other Stocks, Foreign Bonds, &c., on the usual commission, 1½ per cent. on mining and other shares, above £2; and at £2 and under £6. per share.

References given and required.

Bankers: London and Westminster, Lothbury.

M R. E M A N U E L B E A Z L E Y,
STOCK AND SHAREDEALER.
3, CROWN COURT, THREADNEEDLE STREET, LONDON, E.C. //

WALTER TREGELLAS, 122, BISHOPSGATE STREET WITHIN.

M R. WILLIAM MARLBOROUGH, 1, GREAT ST. HELEN'S,
FOR SALE the FOLLOWING SHARES, at nett prices:—
25 Wh. Chiverton, £24, 25 E. Gunnislake, £5s, 50 Pestarena, £2 11s. 3d.
25 Gawton, £24, 25 E. Gunnislake, £5s, 50 West Kitzy, 11s.
20 Wh. Grenville, 35s. 3d. 26 East Russell, 17s. 15 Okel Tor, 12s.
20 Wh. Grenville, 35s. 3d. 26 East Grenville, 36s. 3d. 50 Frontino, 12s.
40 New Lovell, 18s. 6d. 10 Gt. Retaillack, £234, 20 Frosper Unit., 11s. 3d.
26 Chontales, £236, 26 Chorder, £5 Ils. 3d. 15 Chiv. Moor, £6 6d. 50.

BUYER of Summer Hill shares at market price.

pd.1

2314

M. R. Y. CHRISTIAN, ENGLISH AND FOREIGN STOCK
AND SHAREDEALER, 6, BOND COURT, MANDISON HOUSE, E.C.
MR. Y. CHRISTIAN'S "FINANCIAL GAZETTE" should be consulted with
a view to the safe employment of capital. It contains original Articles, and a
Comprehensive Review of the Stock and Share Markets. Also, particulars of
the best paying investments of the day, including Banks, Rallways, Insurance,
Mines, Docks, Gas Companies, and a Selection of Investments paying 10 to 20 per
cent. on outlay. To trustees, shareholders, and intending investors it will be
found a very valuable publication, and should be consulted by those who have
an interest in the state of the money market.
Mr. CHRISTIAN embraces the present opportunity of urging his clients and the
investing public generally to obtain an interest in the NORTH LEVANT MINING
COMPANY at once. The shares are remarkably cheap, and the present time
forers a good opportunity for realising immense profits, whether the shares are
bought as an investment or to sell again.
6, Bond-court, Mansion House, London, E.C.

MR. GEORGE BUDGE, STOCK AND SHAREDEALER. M. R. GEORGE BUDGE, STOCK AND SHAREDEALER, No. 4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C. (Established 20 years), has FOR SALE at nett prices: -25 West Kitty; 50 Crebor, 2s. 6d.; 5 North Crofty, £2%; 15 Chiverton Valley; 5 Wheal Grenville, 37s.; 10 Wheai Kitty (St. Agnes), £2½; 40 Camborno Vean, 10s.; 5 Maes.-Ysāri; 50 South Grenville, 6s. 6d.; 100 West St. Ives; 30 Colquite and Callington, 32s. 6d.; 40 Anglo-Italian; 20 East Carn Brea, 23s.; 5 Great Wheal Vor, £18½; 160 Redmoor; 10 Rose and Chiverton; 50 Cuddra; 20 Gawton; 50 Anglo-Brazillan, 18s.; 20 Prosper United, 11s. 6d.; 50 Rossa Grande.

SPECIAL BUSINESS In Minera, Devon Great Consols, South Caradon, Chiverton Valley, Drake Walls, Pendeen, North Retailack.

PETER WATSON'S "WEEKLY MINING GIRCULAR AND SHARE LIST—SYNOPSIS OF CORNISH AND DEVON MINES," of Friday, May 8, No. 478, Vol. X., price 6d. each copy, forwarded on application, contains information on the following mines:—West Great Work.
Wheal Trelawny,
North Wheal Crofty,
East Wheal Seton.
Great Wheal Seton.
Great Wheal Vor.
Chiverton.
With Remarks on the Tin Trade, &c., &c.

THE LONDON DAILY RECORD—STOCK AND SHARE
LIST—STOCK EXCHANGE SECURITIES. Published every evening at
5 o'clock. It contains the latest prices of railways, banks, mines, foreign stocks
and bonds, financial, insurance, and miscellaneous shares, remarks on the daily
rise and fall in prices, with advice as to purchase and sales. Annual subscription, £1 is.; by post, £2 5s.; monthly subscription—by post, 4s.; single copy, 1d.;
by post, 2d.

by post, 2d.
PETER WATSON, Stock and Sharedealer, 79, Old Broad-street, London

INVESTMENT OR SPECULATION.—A SELECTED LIST OF
RAILWAYS, BANKS, MINES, COLONIAL SECURITIES, FOREIGN
GOVERNMENT BONDS, &c., forwarded to bona fide investors on application,
in addition to the high rate of interest many of the above are paying, there is
now every probability of a great rise in market value.

PETER WATSON, STOCK AND SHAREDEALER,
79, OLD BROAD STREET, LONDON
(three doors only from Hercules-passage, entrance to the Stock Exchange)
Twenty-three years' experience.

(Two in Cornwall and Twenty-one in London.)
Bankers: The Alliance Bank, and the Union Bank of London.
References given and required (when necessary) in all the principal towns of
the United Kingdom.

M R. E D W A R D C O O K E,
FOREIGN AND BRITISH MINING SHAREDEALER,
SHARES in all the Gold Mines, and also those in British Mines, DEALT IN,
at close market prices, either for eash or fortnightly settlement.
Satisfactory references given in any town in the United Kingdom,
Bankers: Alliance Bank.
A daily list of prices sent free on application.

W . H . C U E (late of the firm of WATSON and CUELL).

Has REMOVED TO 42, CORNHILL, LONDON, E.C.

JOHN WILLIAM HUTCHINSON
has instructions to SELL the following shares at net prices:—
1 Botallack 20 Don Pedro, £1 18s, 9d
2 Cargoll, £20\(\frac{1}{2}\).
2 Cargoll, £20\(\frac{1}{2}\).
3 Othorstallack, £2 8 9
20 Chontalles, £2\(\frac{1}{2}\).
3 Othorstallack, £2 8 9
3 Othorstallack, £2 8 9
4 Otherton Moor, £6\(\frac{1}{2}\).
4 Offer wanted).
5 Clifford, £5\(\frac{1}{2}\).
6 Offer wanted).
6 Offer wanted).
7 Offer wanted).
7 Offer wanted).
7 Offer wanted).
8 Offer wanted).
8 Offer wanted).
9 Off

MR. T. ROSEWARNE, 81, OLD BROAD STREET,
T. R. can recommend three mines safe for a great rise within the next three
months. Money advanced to any extent upon good mining shares.

Bankers: Bank of England.

MR G. D. SANDY, STOCK AND SHARE DEALER,
No. 48, THREADNEEDLE STREET, LONDON, E.C., TRANSACTS
BUSINESS IN EVERY DESCRIPTION OF STOCK EXCHANGE SECURITIES,
MINING and FINANCIAL ENTERPRISES, at close market prices.
Mr. SANDY points with satisfaction to his remarks in last week's Journal, and
is pleased to know that a few took advantage of his recommendation, and purchased shares in the undertaking there referred to. Mr. S. has now to announce
a further improvement in the mine, and does so in the confidence that he may
still be consulted by more of his clients.
Correct Daily Price List can be had on application.
Money advanced to any amount on legitimate stocks and shares.

MATTHEW GREENE, STOCK AND SHAREDEALER, 1, ST. MICHAEL'S HOUSE, CORNHILL, LONDON, E.C.
The shares in the following mines are worth buying at the present prices:—
Tamar Sliver-Lead, Montgomeryshire Lead and Barytes, New Clifford.
Full particulars of the above on application.
Bankers—Metropolitan Bank, Cornhill, London.
Tweedy, Williams, and Co., Redruth, Cornwall.

Tweedy, Williams, and Co., Redruth, Cornwall.

M. R. E. J. BARTLETT, STOCK AND SHAREDEALER,
E.C., has SPECIAL BUSINESS, as a BUYER or SELLER of SHARES, in West
Godolphin, Snaefell, Uny, Don Pedro, and Summer Hill.
E. J. BARTLETT is always in a position to deal at the closest market quotations, and having agents in the mining districts, can advise and direct intending investors and others as to the merits of any mining property.
Shares in Banks, Railways, Hotels, and Finance Companies, bought, soil, or
exchanged.
**Buyers or sellers of West Godolphin shares should address the above for
information, &c.

M. R. JAMES HUME, STOCK AND SHAREDEALER, 74, OLD BROAD STREET, LONDON, and MINING EXCHANGE. Every description of shares BOUGHT or SOLD for eash or account. Shares continued for responsible parties, from account to account, at marke

prices.
WHEAL MARY FLORENCE (Limited).—This mine, from its position, and by
force of discoveries, is likely to create much sensation. Its success being affectly
assured, full particulars may be had by applying to Mr. J. Hume.

Established Fourteen Years. M ESSRS. WARD AND JACKMAN,
SHARE DEALERS.
CUSHION COURT, OLD BROAD STREET, CITY, E.C.
Members of the Mining Exchange, London.

And statistical information GRATUITOUSLY on application.

May 8. Bankers: London and Westminster, Lothbury.

INVESTMENT, LOAN, AND BANK AGENCY.
Established 1839.

INVESTMENTS in PUBLIC SECURITIES may be effected by payments at intervals to suit the convenience of the buyer, upon advantageous terms.

LOANS granted, for one year or any shorter period, and renewable, if required, on Stocks and Shares having a market value.

FIVE PER CENT. INTEREST allowed upon DEPOSITS of all amounts withdrawable at one month's notice.

Bank and Finance Agency Business generally undertaken.

RICHARD TAYLOR AND COMPANY.

No. 12, Clement's lane, Lombard-street, London, E.C.

M R. CHARLES THOMAS, MINING AGENT, GENERAL SHALEDEALER, AND AUCTIONEER, 3, GREAT ST. HELEN'S, LONDON, E.C. Second Edition, price One Shilling; post-free, fourteen stamps,

MINING FIELDS OF THE WEST:

A PRACTICAL EXPOSITION OF THE WEST:

A PRACTICAL EXPOSITION OF THE PRINCIPAL MINES and MINING DISTRICTS OF CORNWALL and DEVON.

At No. 3, Great St. Helen's, London, E.C.

MESSRS. LANE AND GIBBS, 2, ROYAL EXCHANGE,
LONDON, E.C. (Members of the Mining Exchange), STOCK AND
SHAKEDEALERS, transact business in all kinds of securities at closest nett
special cash or account.
SPECIAL BUSINESS in East Caradon, Snaefell, Great Laxey, and Minera shares, for cash, or the fortnightly settlement. Daily price list on application. Bankers : London and County Bank.

t. H E N R Y M A N S E L L,
STOCK AND SHAREDEALER,
No. 44, THREADNEEDLE STREET, LONDON, E.C.
References Exchanged.—Member of the Mining Exchange,
Bankers: London Joint-Stock Bank.

SAFE PROFITABLE INVESTMENTS.
Dividends, 10 to 20 per cent. per annum on outlay.
INVESTORS, SHAREHOLDERS, CAPITALISTS
seeking reliable information and safe investments, should read
SHARP'S INVESTMENT CIRCULAR (post free).

GRANVILLE SHARP AND CO., SHAREDEALERS, 22, POULTRY, LONDON, E.C.

Bartlett And Chapman, Stock and Business transacted in every description of securities at closest market prices free of commission.

We recommend the immediate purchase of Lovell Consols, Great South Chieverton, East Chiverton, Great Laxey, and Tamar Valley shares. Particulars and price on application.

Our "Investment Circular and Financial Record," forwarded post free on application.

Bankers: London and Westminster Bank.

JAMES SCOTT AND CO., STOCK AND SHAREDEALERS,

1, PINNER'S COURT, OLD BROAD STREET, LONDON, E.C.

J. S. and Co. are SELLERS, for eash or the account, of shares in any of the undermentioned mines, at quoted prices, nett:—

So. Condurrow, 10s.

Bedford Consols, 12s, 6d.
 Great Laxey, £17 5s.
 Great Laxey, £17 5s.
 Chortales, £2 15s.
 Chiverton Moor, £6 7s, 6d.
 Chiverton Valley, £4 10s.
 Okel Tor, 16s.
 Conduction, £1 10s.
 Chiverton Moor, £6 7s, 6d.
 Chiverton Valley, £4 10s.
 Okel Tor, 16s.
 Okel Tor, 16s.
 Okel Tor, 16s.
 Chonties, £2 1sh.
 Okel Tor, 16s.
 Okel Tor, 16s.
 Chontales, £2 11sh.
 Oket Chiverton, £2 17s, 6d.
 Wheat Miss, 9s 6d.
 Wh. Chiverton, £2 17s 6d.
 Wh. Chiverton, £2 17s, 6d.

Bayers can have trainers register the respectable referenced and trustrespectable references.

J. S. and Co. having in their employ several of the most experienced and trustworthy mine agents in the United Kingdom, who periodically inspect on their
behalf all the bona fide mines in Devon, Cornwall, and Wales, are enable to accord to their friends and clients reliable advice as to the present and ature prospects of mines they deem worthy the attention of investors.

References will be given to the Alliance Bank and the Bank of England.

References will be given to the Alliance Bank and the Bank of England.

R. E. DWARD BREWIS, PALMERSTON BUILDINGS,

34, OLD BROAD STREET, LONDON, E.C., has for sale free of commission, for cash or account: —20 Chontales, £29½; 100 Redmoor, 2s, 5d.; 1 West
Seton, £205; 10 Clifford, £5½; 30 Don Pedro, £2¾; 1 Devon Great Comois, £40; 10 Chiverton, £2½; 50 West St. Ives, 5s. 6d.; 15 Chiverton Moor, £6½; 50 East
Russell, 15s. 9d.; 100 Gian Alun, 7s. 3d.; 150 West Godolphin, 16s, 6d.; 10 North
Roskear; 15 West Kitty, £9½; 29 North Treskerby, 18s. 9d.; 5 St. John del Rey,
£19; 25 Great Rhosesmor, £5; 35 North Crofty, £2½; 100 Frontino, 11s. 3d.;
150 Harwood, 10s. 3d.; 10 West Chiverton, £65; 30 Prince of Wales, £2½; 100
Tyne Head, 1s. 9d.; 25 South Darren, £1½; 30 Lucy Phillips, £5½; 25 Steeple
Aston, £7½; 15 Chiverton Valley, £4½; 50 West Cornwall Granife, £3; 30 Pest
Larena, £2½; 100 New Lovell, 19s. 6d.; 100 Lovell Consols, 7s.; 25 Sao Vicente,
½ prem.; 5 Rosecilfi and Tolcarue, £5; 20 Rosewarno United, 5s. 6d.; 50 Wheat
Mary Florence; 1 Wheal Seton, £78; 50 Mining Association, 15s. 6d.; 10 Maesy-Safn, £26½; 2 Minera, £168; 5 East Seton, 17s. 9d.; 50 Princes of Wales,
4s. 6d.; 10 New Birch Tor, 6s. 9d.; 10 Whitwell, £16½; 25 Rossa Grande, 16s. 6d.;

CHONTALES GOLD COMPANY.—FULL, PARTICULARS of

CHONTALES GOLD COMPANY.—FULL PARTICULARS of the DIFFERENT CLASSES of SHARES can be obtained on application to Mr. J. H. MURCHISON, No. 8, Austinfriars. E.C.

MR. J. N. MAUGHAN, STOCK AND SHAREBROKER (Member of the Stock Exchange),
No. 2, COLLINGWOOD STREET, NEWCASTLE-ON-TYNE,
Transacts business in Railways, Funds, and every description of Mines,
Bankers: Mesers. Lambton and Co.

MR. R. TREDINNIC FOR CONSULTING MINING ENGINEER, CROWN CHAMBERS, THREADNEEDLE STREET, LONDON, E.C.

MR. THOMAS THOMPSON, MINING OFFICES, Ly

MR. D. STICKLAND, M.E., having had upwards of 40 years' mining experience in Cornwall, several years of which he has had the entire management of mines therein, enables him to GIVE GOOD ADVICE

thereon.
Mining, Railway, and other Shares bought, sold, or exchanged. Shares for 4 2 sale in mines and quarries that will pay 15 to 20 per cent. per annum.
Offices, 5, Finsbury-street, London, E.C.

Offices, 5, Finsbury-street, London, E.C.

MESSERS. THOMAS BONNER AND CO.,
MINING AGENTS, MINERAL SURVEYORS, AND SHAREBROKERS,
LLOYD STREET, COOPER STREET, MANCHESTER.

Messrs. THOMAS BONNER and Co. having been engaged in mining pursuits
and the management of metalliferous mines for upwards of twenty years, their
experience enables them to give their clients the soundest advice. They are
always in a position to negociate for the buying and selling of mineral properties in all parts of the world; and they also undertake the floating of companies
for working such properties, if the bona fide prospectus, after careful investigation, meets their approval.

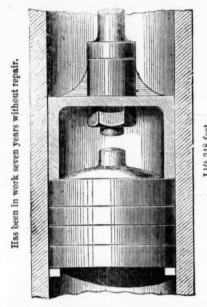
T. B. and Co., are also dealers in every kind of mining shares, and having an
extensive connection are generally able to deal in shares difficult of sale in the
open market, and invite transactions from holders of this kind of stock.

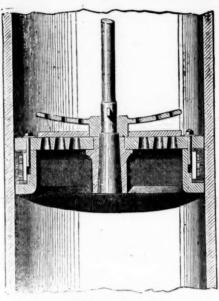
N.B.—Moncy advanced on mineral properties and mining shares.

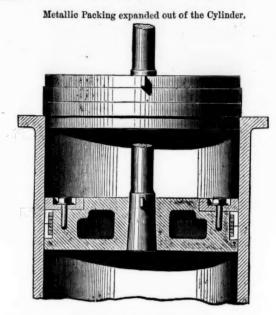
M ESSRS. BEOR AND KENRICK, MINING ENGINEERS, EXCHANGE BUILDINGS, BIRMINGHAM.

PLATT MATHER AND

MILLWRIGHTS, ENGINEERS, AND MACHINE MAKERS, SALFORD IRON WORKS, MANCHESTER.







COLD WATER PUMP FOR DEEP LIFTS.

AIR-PUMP BUCKET.

PISTON IN THE CYLINDER.

MATHER and PLATT beg to call the attention of ENGINEERS and USERS of STEAM POWER to their PATENT PISTONS, AIR PUMP BUCKETS, and COLD WATER PUMPS. The estimation in which these Pistons, &c., are held is shown by the fact that 4760 have been made, as well as by the following Testimonials from gentlemen whose large experience and extensive practice enable them to judge of their qualifications:-

" Bridgewater Collieries, Walkden, Bolton-le-Moors, October 26, 1867.

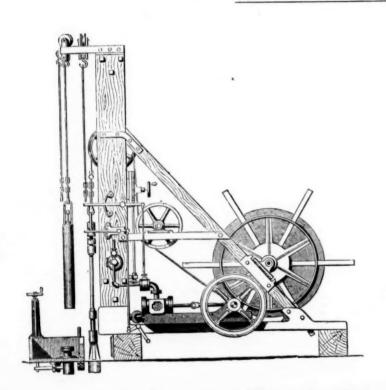
"GENTLEMEN .-- During the last 19 years, commencing in 1848, I have put in upwards of 33 of your patent metallic pistons and pump-buckets, into 49 engines and 20 pumps, under my care at the Bridgewater Trustees' Collieries. I can bear testimony to the very efficient and economical working of the same, and feel confident that with ordinary care they will give general satisfaction, wherever brought into use, possessing, as they do, many practical advantages over other pistons and buckets, being simple, durable, and effective. I have one piston (No. 671) which has been working daily for more than 15 years, one (No. 1586) 10 years, and one (No. 2246) over 7 years, without cost of repairs or trouble of any kind, except occasional cleaning. The smooth and highly polished condition of the cylinders during this length of time convinces me that the action of the metallic packing is so equable and perfect as to render the piston steam-tight and self-adjusting, without producing any appreciable friction. I have had two of your patent metallic pump-buckets working daily for over seven years, one lifting 300 feet, and one 348 feet, and both are yet performing good duty. I am now putting in one of 10 inches diameter patent buckets, to work 10 strokes, of 8 feet 4 inches per minute, under a pressure of 12 atmospheres, and feel confident of success, thus showing the superiority over other buckets, more especially where long lifts and simplicity are required. I herewith hand you an order for a 53-inch diameter piston and rod complete, also air-pump bucket, 263 inches diameter, and rod "I remain, Gentlemen, yours very respectfully, complete. Hoping you will forward the same to these collieries as early as practicable,

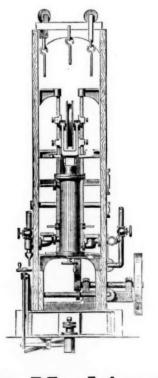
"Messrs. Mather and Platt, Salford Ironworks, Manchester."

"JESSE TIMMINS, Colliery Engineer.

" Frampton Cottrell, near Bristol, October 31, 1867. "GENTLEMEN, -I have ordered direct, or included in specifications of engines which I have prepared, upwards of 100 of your pistons and buckets, between the years 1850 and 1867, and I feel convinced they are the best pistons that have come under my notice, and if any proof was wanting as to my opinion of them, it may be found in the fact of my ordering the last 70 inch piston from you "I remain, Gentlemen, yours truly,

"Messrs, Mather and Platt, Salford Ironworks, Manchester."





M. and P. beg to call attention to their Revised List of Prices of VALVES, TAPS, &c. They also request the notice of Water Companies and Hydraulic Engineers to their IMPROVED SLUICE VALVES for Water. The slides have Gun-metal Facings, are of Wedge form, and when screwed down are tight



WITH GUN METAL

	VAL	VES	AND	SEAT	INGS.
	Bor	e.		1	rice.
	Inc	hes.		æ	s.d.
)	2			1	2 6
1	3			1	17 6
)	4			2	15 0
1	- 5			3	15 0
)	6				17 0
)	7			6	0 0
	8				5 0
	9			8	15 0
	10			10	10 0

	VALV	ES	,	
	WITH GUN FACING		TA	L
Bor	e.		ric	е.
	hes.	£	8.	d.
2	*********	1	10	0
3	********	2	5	0
4	*****	3	0	0
5	*********	3	16	0
6		4	14	0
7	*********	5	14	0
8	********	6	16	0
9		8	0	0

Improved Patent Earth Boring Machines

A considerable number of these Machines has been in most successful operation for some years in exploring for minera coal and the boring of Artesian wells, for supplying many towns, manufactories, &c., with water. Upwards of 50 bore-holes, from 6 in. to 24 in. diameter, representing in all 20,000 ft. of boring, have been sunk in various parts of the world, through rocks of every form and degree of hardness, from the New Red Sandstone to the Igneous formations, as well as Chalk and the London Clay.

The Machine is worked entirely by steam-power, requiring a small boiler, from 6 to 12 horse power, according to diameter of the bore-holes. The framing is made of wood, to render the Machine of easy transport.

The rate of boring is not appreciably decreased as the depth increases, as a flat rope is used in place of rods in the old system.

The attention of those interested in Metallic Mining is called

IMPROVED BUDDLE,

ORE WASHING MACHINE Which they believe will be found of great benefit

AND PARTICULARS CAN BE HAD ON APPLICATION.

Meetings of Mining Companies.

UNITED MEXICAN MINING COMPANY.

UNITED MEXICAN MINING COMPANY.

The half-yearly general meeting of shareholders was held at the offices, Great Winchester-street, on Wednesday,
Mr. CHARLES MORRIS in the chair.

Mr. W. M. BROWYE (the secretary) read the notice convening the meeting, and the minutes of the last meeting were confirmed.

The report of the directors (an abstract of which appeared in last week's Journal) was taken as read. It showed that the excess of expenditure on the 12 months amounted to §10,032, which included the sum of §18,126 expended in the mines of La Oscara district. Operations have been conducted on an economical scale, and Mr. Bur of 10,032, which included the sum of §18,126 expended in the mines of La Oscara district. Operations have been conducted on an economical scale, and Mr. Bur of the concern. The operations for the year at the Mine of Jesus Maria (after crediting the respective accounts with the proportion of the profit of §4865 realised in the quarter ending June) resulted in a loss of \$12,699. The greater portion of the loss was incured in the first division of the year. In the second the result was much less unfavourable, not withstanding the high price of provender and the other articles of consumption. The expenditure in the unies in their great and the other articles of consumption. The expenditure in the unies in their great produced amounted to §11,599, leaving the sum of §18,125 to be debt of the mines. The operations in this district have been directed chiefly to El Carmen and Encinillas, where a considerable amount of work has been done during the past year in clearing out old workings, ventilating and exploring the ground. The works carried on with the object of communicating with the shart of El Cor, in Encinillas, were, after some difficulty, completed in December last, when the clearing of the shaft from the surface was commenced to obtain ventile of a metric, and on the surface was commenced to obtain ventile of a metric, and the produced in the complete of the shaft from the surface was commence

An extraordinary general meeting was then held, Mr. CHARLES MORRIS in the chair.

Mr. Charles Morris in the chair.

The Chairman said this meeting had been convened for the purpose of submitting the following resolution:—"That a call of 2s. 6d. per share be, and the same is hereby, made on all the shares of the company." The matters relating to this call rad been so recently fully discussed that any further observations from him upon the present occasion were rendered altogether unnecessary. He would, therefore, move that the call bo made.

Mr. PALGRAYE seconded the proposition.

A PROPRIETOR wished to know if the board possessed the power to charge an interest upon the calls not paid when due?——Mr. BROWNE read the clause in the Articles of Association bearing upon the question, from which it appeared that the holders of shares upon which a call remained unpaid after the date the amount became due were liable to be charged interest at the rate of 5 per cent, and also to forfeiture upon the expiration of a specified notice to that effect.

The resolution was then put and carried unanimously.

A vote of thanks was passed to the Chairman and directors.

The CHAIRMAN, on behalf of the board and himself, acknowledged the vote, and expressed a hope that they would have a good account to render at the next meeting. (Hear, hear.) The proceedings then terminated.

GAWTON COPPER MINING COMPANY.

A general meeting of shareholders was held at the offices of the

A general meeting or snareholders was held at the offices of the company, Austinfriars, on Thursday,

Mr. CHIVERTON in the chair.

Mr. E. KING (the secretary) read the notice convening the meeting, and the minutes of the last were confirmed.

A statement of accounts, made up to the end of February, showed a credit balance of 1864. 8s. 11d.

The report of the accounts was read, as follows:

The report of the agents was read, as follows:—

A credit balance of 1861. 8s. 11d.

The report of the agents was read, as follows:—

May 5.—We beg to hand you our report of this mine, for the general meeting to be held on the 7th inst., showing the position of your property, and the amount of work effected during the past four months. The new engine-shaft has been sunk, and a tip-plat cut 12 ft. long, 11 ft. wide, and 5 ft. deep below the 70, and is now in regular course of sinking by six men below that point. The 70 fathom level cross-cut has been extended 1 fm. 2 ft. through the caples, and intersected the main or north part of the lode, on which the 70 west has been driven 7 fms. 3 ft. 5 in. on the course of the lode, varying in value from 1 to 5 tons of ore per fathom; the lode in the present end is worth 2 tons of ore per fathom. At this point the lode is intersected by a small cross branch, consequently all little less in value, which we regard as temporary; judging from its promising appearance we have reason to think that this point will again improve to its former value, or above, in some short distance further driving. The 70 east is being driven on the same part 2 fms. 2 ft. from cross-cut, where the lode is improving in character, yielding 1½ ton of ore per fathom. The middle part of the lode has been laid open some 3 fms. east and west of cross-cut, which is chiefly composed of hard capel and very strong mundle, impregnated with yellow copper ore, but not sufficient to value. The winze below the 60 has been sunk 6 fms. 3 ft. 4 in. on the course of the lode, yielding a little ore, and communicated with the 70, which has thoroughly ventilated the bottom part of the mine. The 60 east is extended from cross-cut 28 fms. 2 ft. 7 in., pincipally through hard capels, with a leader part on footwall of the lode, yielding in places from 1½ to 2 tons of ore per fathom; the last 3 fms. of this driving has been through a good lode, worth from 3 to 5 tons of good quality ore per fathom, or from 12, to 20,, and showing a very healthy appearance for continuance. characteristic of opening out a lasting and continuous course of ore in depth; but to the great disappointment of all, even the best mining authority who had previously inspected the mine, I very much regret to say that the great course of ore, then yielding io and 12 tons to the fathom, did not continue beyond 12 tt. below the level in that direction, but in all probability has taken a westerly dip very fast, and may be und at the 60, in connection with the course of ore recently discovered the found at the 60, in connection with the course of ore recently discovered there. The western shoot of ore, direct morth from the new engine-shaft, which was first discovered at the 50, and found to exist in places 14 ms. long, has been principally stoped away from the 40, down 3 fms. below the 60. At this depth the lode became of little value, coming in contact with some hard floors of spar, which greatly impoverished the lode, necessitating a very serious reduction in our monthly returns. But it is exceedingly cheering to see such an important change in the 70, about 8 fms. below, where the lode has every appearance of being on the top of a new shoot of ore, or, at least, the same again improving, from the fact that throughout the whole driving the 3 totom part of the level is double in value to the back. At surface a new smith 3 and content of the same again growing the same again in the preventions at the new mine available for all purposes on the burrow of rubbish, without creating any unnecessary expenses in damage of lands. Under present circumstances, we think it will be most advisable to confine the present operations to sinking the engine-shaft to a deeper level, drive the 60 both east and west, drive the 60 east, and continue sinking the winze below. Also continue the driving of the 50 east, towards the run of ore ground, and put a winze through from the 50 to the 60, so as to cut out this scround in proper sections for taking away. To carry out this work it will require a monthly cost of about 2701, and if ou

The CHAIRMAN moved that the report be received and entered on the minutes, and that the accounts be passed and allowed. The re-

MINES ASSESSMENT BILL.

In the House of Commons on Wednesday, Mr. Wyndham rose to move the second reading of this Bill, by which he proposed to secure an equitable distribution of local taxation. At present the natural objection to taxes of every description was augmented and the opposition to any proposed increase of local taxation was made more earnest in consequence of the inequality with which the rates were imposed. The special grievance he proposed to correct consisted in the fact that property yielding 6,400,000. a year paid nothing to the local rates throughout England, and the grievance was in no wise diminished by the anomaly that the law in force in England did not apply to Sectiand or Ireland. Vory little would be needed to show how unjust to the ordinary ratepayer was this exemption of certain mings from liability to contribute to parish expenditure. A mine in full work in any district drew into its neigbourhood a large number of workmen, for whom dwellings defective into its neigbourhood a large number of workmen, for whom dwellings defective into its neigbourhood a large number of workmen, for whom dwellings defective into its neigbourhood a large number of workmen, for whom dwellings defective into its neigbourhood a large number of workmen and their families became more or less a burden to the parish, notwithstanding their employers had contributed nothing in the days of their heads of the parish purse. Of 324 pangers in a Union in a mining district he found that only 52 were of the agricultural elass—the resch and all been miners. Then, again, great injury was done to roads by the carting of heavy ore from the mine to the railway, yet these roads had to be repaired at the expense of the farmers and shopkeepers, while the owners of the mines were altogether freed from liability to contribute. Without further dilating on this point he provisions of the Bill. The first clause proposed that all mines should be rated at an estimating of the nett annual value of a mine was never paid; it would be paid by a farmer under a s In the House of Commons on Wednesday, Mr. WYNDHAM rose to move the second reading of this Bill, by which he proposed to secure

Mr. St. Aubryn seconded the motion.

Mr. Pease had no objection to the rating of mines, but contended that the amendment should be conducted in accordance with a fixed system applicable to all mines. A return made on the motion of the hon, member for Whitby (Mr. Bagnail) showed how utterly opposed to reason was the practice which had grown up in respect of the rating of coal mines. (Hear.) The third clause, relating to the deductions to be made from the gross value to find the nett rent, seemed adapted to give rise to the innumerable lawsuits; it would be far better if a definite rate of deduction were fixed upon for the purpose. He also objected to clause 6, as far as it set up a different standard for different countries. No doubt the miners of Cornwall and Devon deserved every consideration the House could give under the circumstances; but it would be very unfair if they were relieved altogether from liability to pay local rates. As, however, ordinary principles of assessment were not applicable to miners, he would suggest that an increased deduction should be allowed in the case of mines commercially hazardous.

Mr. DEMMAN reminded the House of a more general grievance arising from the unequal assessment of the highway rate, and hoped the whole question of assessment would be fully brought before the House by the Government at no distant day.

Mr. EVENALI expected to clause 5, and premised streamous covernments.

arising from the unequal assessment of the bignway rate, and a proper duestion of assessment would be fully brought before the House by the Governmeet at no distant day.

Mr. KENDALL objected to clause 5, and promised strenuous opposition to t. All those in Cornwall interested in mines had agreed it was fair mines should be rated, and he knew of only one person who should bear the charge. The hon, member must not think he was going to carry his fill and leave the Cornish people in the lurch; be, for one, would insist upon abiding by the recommendations of the Select Committee, which had reported on the matter.

Mr. BRUCE pointed out that although the Bill was approved in principle, it was not sufficiently complete in itself. Uniformity, above all things, was needed; if deductions from gross value were to be allowed in the case of copper and tin mines, why should they not be allowed in the assessment of coal mines? It seemed to him to be monstrous that at in mine in full operation and producing well should be rated on more favourable terms than a coal mine. He did not insist that it should be rated for all years on the estimate of any one year, but that a fair average should be struck for the assessor's guidance. (Hear.) The hon, member who introduced the Bill had omitted from his very clear statement an important point arising out of clause 6. The effect of that clause would be that coal mines, which are now rated to their fullest extent, would be assessed at only one quarter of their annual value. That seemed to him a very doubtful measure; he had always approved the principle laid down by Sir G. Lewis, that all exemptions for rating purposes were impolitic; and for this proposed exempall exemptions for rating purposes were impolitic; and for this proposed exempall exemptions for rating purposes were impolitic; and for this proposed exempall exemptions for rating purposes were impolitic; and for this proposed exempall exemptions for rating purposes were impolitic; and for this proposed exempall exemptions for measure; he had always approved the principle laid down by Sir G. Lewis, that all exemptions for rating purposes were impolitic; and for this proposed exemption in favour of coal mines he could imagine no reason whatever. If anyone wished to find a district where the roads were bad, where small, ill-bulk houses abounded, and pauperism was chronic, let him go to a colliery district. The colliery drew around it a large population of the poorest description, and it should be made llable to pay local rates as much as any other property. Trusting that these points would be considered in committee, he had no objection to the second reading of the Bill

ese points would be considered in committee, he had no objection to the second ading of the Bill. Lord G. CAVENDISH said, respecting the wish for uniformity of LOTE OF CAYENDISH SAIG, respecting the Wish tor uniformity of assessment, that the difficulty of dealing with the fifth clause as far as it effected Derbyshire could be appreciated only by those who knew what a happy state of things existed there in consequence of the agreement already referred to. The mines of Derbyshire had always been rated. The assessment was made on the royalty paid to the Duchy of Laucaster, and the rate was paid by the Duchy, so that the parish actually got more from the mines than it would get if the occupier were rated, because the poorer miners would of necessity have to be excused. He suggested something in the nature of a Bill for compounding mining rates; if that could be managed the Derbyshire arrangement might stand.

Mr. BAGNALL could not understand why plantations were exempted

Mr. BAGNALL could not understand why plantations were exempted from liability to pay rates. Formerly they were excu-ed in order to promote the growth of timber for the Royal Navy, but this would not be sufficient excuse now Mr. CANDLISH complained that if the 6th clause were to be more

prospective new mines would be assessed at one-fourth their value, while of mines would be rated at their full netr rental. He cautioned the hon, membe who had charge of the Bill against those who urged him to permit deductions, but admitted that some allowance should be made for the exhaustion of the corpus mitted that some allowance should be made for the exhaustion of the corpus.

Mr. CORRANCE thought the hon, member deserved the thanks of the House for bringing the matter forward, and he approved the principle of the Bill; but he complained with reference to the whole subject of rating that no principle had yet been fixed on by the Legislature as the basis for any rate at present existing. The law had come into its present state by a course of for-

port plainly pointed out the position and prospects of the mine, and all he need state was that, upon receiving the resignation of the late purser, the committee succeeded in negating the services of a most competent and on the committee succeeded in negating the services of a most competent and on the received of the present prospects continued that in a few months hence the present prospects continued that in a few months hence the reserves near use productive as a the present moment. There was no doubt if the present prospects continued that in a few months hence the reserves would be no cosserved the report prospects continued that in a few months hence the reserves would be needed to the present prospects continued that in a few months hence the reserves would be needed to the reserves would grant be month of the statement of accounts.—Mr. King, in reply to a question, stated that the statement of accounts.—Mr. King, in reply to a question, stated that the statement of accounts.—Mr. King, in reply to a question, stated that the statement of accounts.—Mr. King, in reply to a question, stated that the present prospects continued that in a few months hence the reserves would grant be most properly would be not be such as a productive as a the present moment. There was no doubt if the present prospects continued that in a few months hence the reserves would grant be more than the statement of accounts.—Mr. King, in reply to a question, stated that the present prospects continued that in a few months hence the report in the present prospects continued that in a few months hence the report in the present prospects continued that in a few months hence the report in the present prospects continued that in a few months hence the report in the present prospects continued that in a few months hence the report in the present prospects continued that in a few months hence the report in the prospect of the report in the present prospects continued that in a few months hence the report in the present prospects continued

EXTENSIVE FRAUDS BY A SHAREBROKER.

Paul Raby, 52, a gentlemanly-looking person, described as a share-

EXTENSIVE FRAUDS BY A SHAREBROKER.

Paul Raby, 52, a gentlemanly-looking person, described as a sharebroker, of Redruth, Cornwall, was indicted, at the Surrey Sessions, on Wednesday, for unlawfully obtaining two bills of exchange for 500%, each, about 170% in cash and other securities, from Major Thomas Ross, by means of false and fraudulent protence; he alieging that he had the lease of the Wheal Emily Silver Mine, in Cornwall, whereas no lease had been granted by the frecholder.

Mr. Sieigh, specially retained with Mr. Oppenheim and Mr. Bradford, appeared for the prisoner;

Mr. Sieigh, specially retained with Mr. Oppenheim and Mr. Bradford, appeared for the prisoner;

The prosecutor was a retired major in the army, residing on his property, Kilravoch House, South Norwood. In the early part of the year he desired to invest some money in mining shares, and in March the prisoner put himself in communication with him, representing that he was the possessor of the Wheal Emily Silver Mine, in the parish of Callington, Cornwall. About the end of the mouth the prosecutor, believing the prisoner to be a gentieman, invited him and his wife to spend a day or two at his house as his guests, and he was induced to purchase 215 shares of the prisoner, for which he gave him a bill of exchange for 2154,; about the same time he bought 75 more shares, for which he gave him a cheque for 754. He had previously purchased of Messrs. James Scott and Co., mining brokers, of Pinner's-court, 150 shares, in January last, for which he had also paid in eash 3371. los. The prisoner said that he was offered the lease, and if he had 1004, more he could secure it for his own advantage, and those who advanced him money. Believing his story to be correct, he gave him another cheque for 1004. On the morning of April 1, while he was a guest of the prosecutor, he tapped his breast pocket and said, "Thank God, my mind is easy now, as I have got the lease here all right." He then advised him to take 1000 shares, telling Major Ross that if he dids oh

or any other person, consequently he had been defrauded of his money and bills of exchange. During the time the enquiries were pending, the prisoner had the impudence to forward the prosecutor another bill of exchange for 4 0t. for his acceptance.

In cross-examination, Witness said that he understood that a bill had been filed in Chancery by Mr. Davies against Mr. Langford to obtain a lease from him, but it turned out to be of no avail. Exams was brother-in-law of the prisoner, and never had a bona file share of the mine, or the means to purchase it. It was n comspiracy between them to defraud him out of his money.

Mr. Weston, clerk to Mr. Hicks, solictor, said he filed the bill in Chancery for Davies, and received 40 (1t.) shares in payment of the costs. Witness sold those shares, but as soon as the fraud was ascertained he had to take them back and refund the money. He had never been paid the costs.

Miss Ann Lloyd, an old friend of the major and his family, said that she was staying there while the prisoner and his wife were on a visit on March 31 and following day. She was induced to purchase some shares of him. On the morning of April 1 the prisoner told her he had got the lease of the mine at last, and tand show he had. Considering him to be a gentleman, she declined the offer. The prosecutor, believing that he had the lease about him, purchased 1000 shares, and accepted two bills of exchange for 5000, each.

Mr. James Thomas Snell, accountant, Cheapside, said he was on a professional visit at the prosecutor's in the end of March, when he saw the prisoner there. He spoke very largely of the Wheal Emily Silver Mine of Cornwall, and wanted the prosecutor to pay for the shares 10 and 10 and

CAPTAIN BEDFORD PIM.—An act of justice has at last been done by the Admiralty in the promotion of Commander Bedford Pim to the rank of captain. Before attaining the rank of Houtenant Capt. Pim served in all quarters of the globe, but this, his first step, came by seniority, and, moreover, he passed the best examination of his day at college. He volunteered, and was employed in three arctic expeditions, and was the connecting link of the north-west passage, saving from starvation and death the officers and crew of Her Majesty's ship Investigator, when hopelessly beset in the ice. He afterwards served with distinction in the Russian and last Chinese wars, and was wounded on three occasions, twice severely, once receiving six bullet wounds. Capt. Pim is favourably known as an author and writer of considerable ablity. He has devoted much known as an author and writer of considerable ablity. He has devoted much time, energy, and money during the last six years to his great project of opening a transit through Nicaragua, and while is now in a fair way of being carried out. In addition to this, Capt. Pim has taken quite a lead in the development of the commercial resources of Central America, and to his business ability and organisation we are Indebted for the successful introduction of more than one understion we are indebted for the successful introduction of more than one understion. commercial resources of Central America, and to his business ability sation we are indebted for the successful introduction of more than taking in that part of the world.—United Service Gazette.

LONDON GENERAL OMNIBUS COMPANY.—The traffic receipts for e week ending May 3 amounted to 11,3651. 1 s. 8d.

the week ending May 3 amounted to 11,365.1 18. 8d.

Dr. Locock's WAFERS FOR COUGHS, COLDS, AND HOARSENESS.—
Letter received March 28, 1968, from the Rev. G. Warne, 36, Springfield-place, Leeds:—"Whenever in times of hoarseness, arising from cold or excess of public speaking, I have taken Dr. Locock's Wafers, I have invariably found relief."
Dr. Locock's Wafers give instant relief to asthma, consumption, coughs, and all disorders of the breath and lungs. To singers and public speakers they are invaluable for clearing and strengthening the voice, and have a pleasant taste. Price 1s. 1\(\frac{1}{2} \)d. per box. Sold by all chemists.

HOLLOWAY'S PILLS-HEALTH'S FOUNTAIN,-It cannot surely be necessary to renind any intelligent reader that the purity of the blood determines every invalid's health and vigour. Holloway's medicine searches out the slightest taint in the vital fluid, and neutralises or expels it, so that the circulation supports the system in place of sowing the seeds of decay; when epiden dear and advancing, and disease is steadily on the increase, it behoves everyone to have a restorative like these pills ready to set right any irregularity, in stomach, liver, bowels, or kidneys. Holloway's treatment is especially suitable for the young, delicate, and nervous, who are most susceptible of any prevailing sickness, and whom violent measures would endanger little less than the epidemic,

Oniginal Connespondence.

THE NORTH STAFFORDSHIRE COAL FIELD-No. I.

SIR,—The lower coal measures crop out in the neighbourhood of the following places:—Longton, Adderley Green, Bucknall, Norton, Ridgway, Biddulph, Mowcop, Harceastle, Talke, and Silverdale. The dip is generally 15 inches per yard and upwards at the edges of the coal field, but towards the centre the dip is about 9 inches per yard. Near Mowcop there is a contrary dip, which constitutes another coal field. From Silverdale to Longton no coal is worked, and it is probably thrown down to a considerable depth at this point. The entire series of coal seams are numerous, ranging from 3 feet to 10 feet thick; the most of them produce a good proportion of large coal, but make much smoke and ashes in burning. The Birchinwood and Holly-lane seams are, perhaps, the best adapted for house fires. The beds of ironstone (found chiefly in the upper portion of the series) range from 1 foot to 3 feet thick, producing first-class iron when smelted with Durham or South Wales coke, and part of their own coal; but the North Staffordshire coals are considered to be too weak and sulphury for furnace purposes, and much of the coal is coked for iron smelting, some in ovens, and some by the wasteful process of open clamps. At Bid-SIR,-The lower coal measures crop out in the neighbourhood of the fordshire coats are considered to be too weak and sulphury for furnace purposes, and much of the coal is coked for iron smelting, some
in ovens, and some by the wasteful process of open clamps. At Biddulph, where there are three furnaces in blast, raw coal alone is used,
but at most of the other works an admixture of coke and coal is used,
in various proportions. At Biddulph, the gases from the furnaces
are not utilised for heating boilers or stoves. At Shelton there are
four furnaces (three in blast), where the gases are not utilised. At
Etturia there are four furnaces (three in blast), where the system of
utilising the waste gases is being introduced, and good results are expected from jt. At Kidsgrove there are four furnaces, all in blast;
two of these only utilise the gases, and from the process great saving
of fuel has been effected. These furnaces have no cone or cover on
the top of each furnace, but the gas is diverted from the furnace to
the stoves, and underneath the boilers, by the aid of a tall chimney.
The gas does all the heating work, not an ounce of coal being used,
and the furnaces produce more iron than before the process was applied. Here the forges and mills are also in full operation, producing
bar-iron, small rails, and heavy plates for shipping; large rails are
not made here, nor, as a rule, at the other North Staffordshire works,
being cut out in price by the South Wales ironmasters.

The pits in this coal field are generally sunk about 60 yards apart,
on the line of dip, and it is common for one engine to work from four
its at different dants. In the steener measures the distance is greated.

being cut out in price by the South Wales ironmasters.

The pits in this coal field are generally sunk about 60 yards apart, on the line of dip, and it is common for one engine to work from four pits, at different depths. In the steeper measures the distance is greater. There is a want of railways at many of the collieries, some, producing as much as 200 tons of coal per day, send away the whole of their produce by carts. The pumping and winding-engines are nearly all on the same principle, the former being beam-engines, placed some distance from the pits, and connected with the pump-rods by the intervention of long connecting-rods and T-bobs, instead of having the cylinder or beam placed over the pit, as is done in most other districts. At Chatterley, where ironstone is worked at a depth of 300 yards, winding-engines of the most approved plan are to be seen; but at most of the collieries single horizontal cylinders, or beam-engines, with the winding machinery outside, are the rule. The mechanical appliances for hauling the coal by means of endless chains, at Botteslow and Fenton Park Collieries, are well worth seeing.

There is a great want of railway accommodation at the Pottery towns of Tunstall, Burslem, and Hanley. Stoke and Longton are in close proximity to the railway. The North Staffordshire Company obtained an Act for a loop line to pass through the three first-named towns, but, seeing the project would be a ruinous one, are now backing out of it. The original line could, no doubt, have been brought much nearer to the three towns, and the stations of Burslem and Tunstall could have been placed in closer proximity than they are to those towns; the latter is about a mile further away from Tunstall than it should be.

those towns: the latter is about a mile further away from Tunstal

The consumption of smoke has occupied the attention of the in habitants of the Pottery towns of late, and there is great need that it should do, for everything outwardly is besmeared and blackened with smoke, giving an aspect to these towns and their inhabitants gloomy and miserable in the extreme. When the matter is thoroughly looked into, potters will find it to their interest to consume the smoke in their models and inverse the appearance of the lower class of dwell. orks, and improve the appearance of the lower class of dwellings.—May 7. M. B. GARDNER,

TREVENEN AND TREMENHEERE MINES.

Sin,—I have been requested by the lord of these mines to furnish him with a statement of the work done during my six years' management, that he may have a record of the same for himself and family. Having had free access to your valuable medium for the publication of my reports heretofore, I once more ask you kindly to grant me space for the thorough publicity of the following statistics of these mines during my agency. There may be others who would be curious enough to know what has been done, and it might be satisfactory to the shareholders and community at large.

statistics of these nines during my agency. There may be others who would be curious enough to know what has been done, and it might be satisfactory to the shareholders and community at large.

We have examined the books, and the account is as follows (omitting feet and inches):—Sunk in shafts, 145 fms.; in whizes, 144 fms.; driven on the course of the lode, 376 fms.; lin stopes, 2200 fms.; in cross-cuts, 146 fms.; and nearly 200 fms. clearing old shafts and levels: making a total of nearly 4000 fms. of ground. And this is not all that has been accomplished, for much more has been wrought at per bargain, which must be easily understood by every practical niner. Perhaps a report of this sort is scidom published, but having ascertained these facts, through your kindness, we publish it to the world. And, further, there may a few among the numerous readers of your widely-circulated Journal, especially so if they have heard or known anything of the working of these mines under Capt. T. Martyn 50 years ago, who would like to keep this record as a memorial of the past, and hand it down to succeeding generations. May 5.

NEW TRELAWNY MINE, AND ITS MANAGEMENT.

NEW TRELAWNY MINE, AND ITS MANAGEMENT.

Sir,—I have noticed that a good deal has been said in your valuable Journal about the above mine, which is situated near this town. The mine has been reported on favourably by different agents, and I think myself that the sett is worthy of a trial, but the method of working, with their power, is nothing less than ruinous to the shareholders. I find they have a portable engine, better known as a puffer-engine and coal-consumer, which I am told costs for engine, energine is worked to the extent of its power, which will stop their sinking deeper by this means. If the proprietors of the mine would put in a suitable stationary engine, and spend in their underground operations what is now being wasted by keeping the puffer at work, then I think the chance of success would be much greater in finding a good mine, which just now is needed by us in our district. My object in troubling you in this matter is to point out one instance of how the money of mining capitalists is got rid of, which too often brings bad repute on mining generally.

Callington, May 7.

Callington, May 7.

A MINER.

Callington, May 7. brings bad repute on mining generally.

Callington, May 7.

[For continuation of Original Correspondence see the Supplement to this day Journal.]

ROPE TRADE.—Messrs. Garnock, Bibby, and Co., of the Swan Rope Works, Liverpool, say—"We have now to advise a reduction of 2t, per ton in price of tarred hemp and Manilla rope. Russian hemp holders have been much out of their calculations of consumption this spring, owing to the substitution of other hemps for purposes which Russian has generally been used for, general depression in trade, and the falling off in shipbuilding in North America. Consumption has been very small, consequently the market has taken quite a different turn to what was generally expected. Manilla hemp, having recently are rent turn to what was generally expected. Manilla hemp, having recently arrived in good quantities, a number of parcels being consequently thrown on the market at once, has depressed this article also, but as there is not now much on the way for this country, we think the depression will be temporary."

NEW APPLICATION OF COPPER.—Mr. Wiederhold proposes as a AS AN AFFIGUATION OF CUPPER.—MI, Wiederhold proposes as a way application of copper the manufacture of a new green copper by mixing a cultral soap of linseed oil with a salt of copper in solution, or by combining disty the fatty acid of the oil with oxide of copper. A paste of a fine green lour is thus obtained, which may be immediately employed for calico printing.

It can be dituted with spirit of terpentine or benzole until it has acquired a necessary degree of finidity.

PAPER BELTING.—The experiment of making belting from paper has proved a success in the hands of Crane and Co., at Dalton, Mass., and the article is now used in all their own mills, and several other manufacturing establishments. The belting resembles the genuine oak-tanned leather, and serve allke well in a dry or damp atmosphere.—San Francisco Mining and Scien. Press

THE GIFFARD INJECTOR.—Probably no mechanical contrivance in THE GIFFARD INJECTOR.—Probably no mechanical contrivance in general use has more puzzled practical uner from its apparent opposition to natural laws than the very useful little instrument known as Giffard's Injector. The explanation of the principle of action as given by Mr. Robinson, of Manchester, is that the pressure on all parts of the interior of steam-boilers being equal, some reason must be sought why steam taken from one part is able to overcome the resistance opposed to its entrance in another part of the same boiler. If a pipe conveying steam were turned directly back into the water of the same boiler. It is evident that equilibrium would ensue and neffect be produced. If, on the other hand, a break were made in the continuity of the pipe, so as to leave an interval open to the atmosphere, steam would rush from one pipe and water from the other in the boiler, with a velocity proportioned to their different densities. In constructing the injector, the feed-water chamber is placed at the break in the pipe, and this arrangement accounts for the power of the steam to overcome the resistance to its entrance into the receiving pipe of the boiler. The jet of steam, being concentrated on the water, forces its way through the interval

surrounded by feed water, by contact with which it is gradually condensed, and reduced in volume and velocity, until it is entirely converted into water at the throat. In doing so, it imparts to the feed-water a velocity proportioned to the pressure in the boiler and its own temperature; and, the water being non-elastic, it acquires sufficient momentum to overcome the resistance in the water space

FOREIGN MINING AND METALLURGY.

The slight improvement reported of late in the Belgian coal trade maintained, and the deliveries have continued active, by water as well as by railway, during the last few days. The hesitation of many firms is, however, not yet removed, and long-termed contracts are only concluded with difficulty. Prices remain low, and without varifirms is, however, not yet removed, and long-termed contracts are only concluded with difficulty. Prices remain low, and without variation. The direction of the company for working the Netherlands State Railways and the Liége and Limbourg lines has published a statement with reference to a complaint made, that the tariffs adopted favour the conveyance of coal from the Ruhr basin, to the detriment of Beiglan coal. The direction observes:—"The Netherlands Company having the greatest interest in promoting the importation of Beiglan coal into Holland, has adopted a series of measures in order to stimulate the conveyance of the coal of the Liége basin towards the Campina, the Limbourg, and Northern Brabant. Thus, for example, in order to interest the agents of the company in the disposal of Beiglan coal, it grants a douceur to station-masters in the Campina and in Holland for each truck of Beiglan coal which arrives at their stations; it also grants commissions out of the transport rates charged to colliery agents who undertake to 'place' in Holland a certain quantity of Beiglan coal. If, notwithstanding all the sacrifices which the Netherlands Company has imposed on itself in order to create outlets for Beiglan coal in Holland, Beiglan coal owners do not succeed in doing so, the result must be attributed to the very high prices at which coal is quoted in Beiglam, as compared with the rates current for German coal." The condition of the Beiglan metallurgical markets is considered to be decidedly better, with the exception of pig, which remains neglected. The rolling-mills have been receiving of late a good current of orders for the rolling-mills have been receiving of late a good current of orders for the rolling-mills have been receiving of late a good current of orders for the rolling-mills have been receiving of late a good current of orders for the rolling-mills have been receiving of late a good current of orders for the rolling-mills firms will be freed from uneashoss for some months to come decreal importance

Picquery Collieries Company, at Frameries; Herve-Wergifosse Collieries Company, May 14, at the offices; United Collieries Company, May 14, at the Brussels, &c. There is little change to note in the position of French metallurgical industry; with the exception of some orders to meet current wants, the works have not much on hand. Prices are so depreciated and so subject to variations that it is difficult to establish precise quotations. The following rates may, however, be noted as current at St. Dizler:—Charcoal-made pig, 44. 4s.; rolled from from coke-made pig, 64. 16s. to 71. 4s.; ditto from charcoal-made pig, 84. 16s.; mixed ditto, 84. 4s. to 84. 12s.; hammered iron, 94. 8s. to 94. 12s. per ton. A circular has been issued by the Minister of Public Works with regard to the new regulations as to imports by warrants; it has provoked fresh complaints on the part of industrials, who appear to be but little satisfied with the course pursued by the Government. Fresh memoires and protests have been drawn up in all the French groups, asking for the suppression, pure and simple, of the warrant system, and the abandonment of the treatles of commerce on their expiration. At an adjudication for 1690 tons of galvanised iron wire for the French telegraphic lines the prices proposed by the competitors were not in any case below the maximum prescribed by the administration, and no lot was let. Foreign works, it may be remarked, were not admitted to this competition. The Bouches-du-Rhône Collieries Company on at Valenciennes; Moscile Colliery Company, May 16, at Paris; Franche-Comté Biast Furnaces, Foundries, and Forges Company, May 16, at Besancon, &c.

The total quantity of gas sold by the Belgian General Company for Lighting and Heating by Gas—which has works at Arras, Bergues, Cambraí, Catann, Charleroi, Chemnitz, Dunkerque, Fourmies, Herstal, Louvain, Marchienne-au-Pont, Prague, Rimini, St. Omer, Sienna, Tournal, and Valenciennes-Anzln-during September, October, November, and December, 1867, and January, February, and Ma

England at the commencement of July, at 781. 10s.; and of 45 tons May 15, at 781. Since then, however, the market has become more quiet, and no very striking transaction has been mentioned. At Paris, Chilian in bars is quoted at 771. 10s. to 781.; ditto in ingots, 811.; and Corocoro minerals, 801. per ton. The reports made as to the German copper markets are satisfactory, the article finding an easy outlet at present rates. At Berlin, Cologne, and Stettlin there is no variation to notice in prices. There has been a return of activity on the Rotter-dam tin market, 2000 ingots of Banca having changed hands at 55 fis.; operations speedily acquired increased animation, and sellers promptly raised their pretensions. The sale was successively noted of 800 blocks of Banca at 554 fis., 2300 blocks at 554 fis. polecular objects at 554 fis., and 1700 blocks at 55 fis. Billiton has also hardened in price, and has been quoted at 55 fis. Prices of tin have been sustained at Paris, Banca making 981, straits 971. 12s., and English 981, per ton. At Marseilles the article has displayed a good tendency, Banca making 961, and English in sheets 1004, per ton. On the German markets tin has been dealt in currently at previous rates. Transactions in lead have been restricted, and have been almost exclusively limited to current wants; nevertheless, notwithstanding the persistent caim which prevails, the article displays some firmness, and on some markets it even presents a slightly upward tendency. There is nothing particularly interesting to note as regards zine; the various markets continue quiet, and the transactions concluded present little importance.

[From our Correspondent.]

MINING IN NEVADA, U.S.

[From our Correspondent.]

For several days past the rumour is rife that there has been a rich discovery of gold made in the south-eastern part of the State. The new district is called Bryfogle, and is located near the notorious "Death Valley," close to, or at, the exact spot where the fabulously rich "lost gold mine" was said to be situated. A man by the name of Bryfogle several years ago claimed to have discovered in the vicinity of "Death Valley" a lodge of gold-bearing quartz of unsurpassed richness, samples of which he was said to have exhibited to various persons in this State and in California. Bryfogle frequently attempted to find the mine, from which he alleged he had been driven by Indians, but he was always unsuccessful. Its existence, however, has been believed in firmly by many prospecters. The reported placers are said to have been discovered by a party of men from Owen's River valley, who were prospecting the country lying to the castward, and were rewarded by finding rich placer diggings, about 150 miles east by south from Fort Independence. The gold occurs in a reddish soil on the banks of a creek, which yields the value of 2 and 3 cents to the handful. As large an amount as \$11,000 in fine gold is reported to have been carried back to Fort Independence. Quite a number of persons from Kearsarge, Lone Pine, and Palmetto districts have gone to the new digglings.

The Silver Champlon Mine, situate in the Philadelphia district, two miles north of Belmont, is likely to prove no exception to other good mines of the district. From the day of its discovery it has yielded ore of the richest quality, although the vein was so broken and smashed that it presented the appearance of a mass of debris, composed of limestone, clay, and quartz. This broken mass produced some large and choice specimens of horn silver; 5 tons of the ove which was sont to Austin for reduction yielded between \$750 and \$900 of silver per ton. Other lots, ranging from 3 to 7 tons, have yielded from \$345 to \$600

for reduction. This mine is owned exclusively by J. R. Murphy and Kobert J. Morill, who are likely to reap a rich harvest for their patient exertion and expenditure of money.

The New York and South Twin River Company's mill, located in Seneca district, between Silver Bend and Reveille, has lately been making successful runs upon ore from the Mohaska, Silver Star, Crescent, and Mediterranean ledges. The last lot worked was 30 tons, which gave an average pulp assay of \$225 per ton. This result is sufficient to demonstrate the superior quality of the ore produced in the district. The mines of the district, although only slightly developed, can produce enough ore to justify the erection of a larger mill, for during the last fall hundreds of tons were transported to the mill at Hot Creek for reduction, a distance of 30 or 40 miles. This, in connection with Reveille district, is a good point for the erection of a large custom mill, as it is estimated that with the present development of these districts the mill could rely upon receiving monthly from 300 to 400 tons of good paying ore. To this supply may be added a considerable amount which would be hauled from several contiguous districts. In addition to the above-mentioned mines of these districts may be mentioned the Bullion, Sweepstakes, Sunny South, Essex, Amazon, New Hope, Desert Queen, Adriatic, Fisherman, and Knickerbocker. Several of the above ledges have been opened to various depths by inclines, and in most of them the appearance of the mineral deposit is excellent. The mineral occurs generally in limestone, which holds frequently as rich and permanent deposits of silver ore as either granite, slate, or porphyry. In some parts of the district veins are found to exist in granite, and a few in porphyry. From the surface down to the varying depths which have been attained a considerable number of the claims produce ore of a higher grade than the average of the best districts in the State.

In Pahranagat, several companies are engaged in mining with vigour and

the State. In Pahranagat, several companies are engaged in mining with vigour and sys-

tem. The developments on the List ledge, which is the great and principal one in the district, are enough to sustain active and large operations. The moment Ostrom's Mill begins to produce bullion, an event which is expected with the liveliest interest, it will lead to increased efforts in mining by many whose claims have long been idle. The Alameda Company, which owns a nortion of the liveley beginning the control of the liveley of the liveley of the liveley. liveliest interest, it will lead to increased efforts in mining by many whose claims have long been idle. The Alameda Company, which owns a portion of the List ledge, is also engaged in converting the five-stamps mill of the Crescent Company into an efficient ten-stamps mill, which will be furnished with reverberatory furnaces, and improved means for amalgamation. The prospect for success never looked so enc uraging as at present. The Knickerbocker Mill, at Ione, is again at work with good success, having produced over \$4500, being the result of the first three days' run on ore from the Indianapolis ledge; regular shipments of bullion from this point may be confidently relied on.

PUDDLING IRON AND STEEL.

With a view to elucidate the various metallurgical operations connected with the manufacture of iron, and to facilitate the under-

With a view to elucidate the various metallurgical operations connected with the manufacture of iron, and to facilitate the understanding of the properties of the iron and steel made, two treatises, which cannot fail to prove of the utmost utility to practical men, have just been translated by Mr. A. A. Fesquet, of Philadelphia. The paper of Mr. Urbin is a prize essay, read before the Association of Engineers, Graduates of the School of Mines of Liége, Belgium; whilst that of Mr. Brull is an extract from the Memoirs of the Society of Civil Engineers, Paris. Mr. Urbin's treatise is divided into six sections, dealing with the theory of the puddling process, the physical characteristics of slags, means for changing the chemical composition of slags, the influence of the fuel on the working, the influence of the furnace on the working, and puddlers' work respectively. The operation of puddling, Mr. Urbin observes, may be divided into five periods—the fusion and the purification of the pig-iron, the refining for and the carburising of the grain, and the refining by flame—each of which he carefully describes; he explains the action of cinder on pig metal and on iron, the deportment of pig-iron, and the formation of the refining slag. With regard to the means for changing the chemical composition of slags, he points out the importance and mode of studying the flame of the furnace, and of making mixtures of pig metal best calculated to produce a desired result. Referring to the influence of fuel on the working, Mr. Urbin observes that the puddler must be able to produce a twill an oxidising or a reducing and carburising flame whose action extends over the whole surface of the bed. The false meaning of the words hot and cold, which constitute nearly all the technical language of the puddler, has given rise to the construction of furnaces and fire-places which are a far from answering the object. A great heat is evidently necessary on many occasions, but if the production of a high temperature. Thus, for the puddler, a b vantage as from a bituminous one for puddling and re-heating. But as long as we have no convenient apparatus for that we must vary the dimensions of the different parts of the furnace according to the quality of the fuel we have at our disposal. The process employed by the puddler of allowing the fire-door to be partially open in order to introduce continually small quantities of coal into the fire-place

to introduce continually small quantities of coal into the fire-place is absurd indeed.

After describing the influence of the furnace on the working, Mr. Urbin proceeds to give hints which will be very useful to the practical puddler. Having pointed out the care to be observed in preparing the material in the furnace for the final operation of refining by flame, he remarks that this latter, which does not take place for steel, and is of short duration for fine granular iron, will be somewhat protracted when a fibrous and perfectly homogeneous iron is required. The workman must then divide the mass several times with his crowbar, and expose all parts to the action of the flame, which must be reducing rather than oxidising. An expert puddler can go faster by working with a flame slightly oxidising, but the iron will be much waste, the mass of iron will become hard outside, will be very difficult to divide, and there is no longer a possibility of manufacturing a homogeneous iron. To hasten the refining by the flame, the puddler will sometimes bleed his furnace—that is, tap part of the slag during this period of the working; it is a bad practice, which produces much waste and an inferior iron. The balls of fibrous iron may remain a certain length of time in the furnace, but the flame must be reducing, and they must be rolled in the slag. When beginning his balls, the puddler must take as the nucleus the most refined iron, in order that the least refined may remain a little longer to be acted upon by the flame. He must weld together the hottest and most refined parts of the iron, and put on top those which are cold and not quite refined.

The conclusions arrived at are that the puddling process must re-

cold and not quite refined.

The conclusions arrived at are that the puddling process must re-The conclusions arrived at are that the puddling process must remain in use, notwithstanding the new processes of Bessemer and others. The former is a general operation which applies to all kinds of pig-iron, the latter purify only by air or oxidising agents; they have a great value in certain cases, but do not succeed except with very pure metals, which require only to be deprived of their silicon and their excess of carbon. If sulphur and phosphorus exist in the metal they remain there. Already, in order to obviate this difficulty, it has been proposed to add certain substances which combine with silica and other impurities, thus forming a slag. It will, therefore, be a purifying by air and by slags, or a puddling process performed in different apparatus.

THE RESISTING PROPERTIES OF IRON AND STEEL,*

In supplying an English translation of Mr. Brull's paper, Mr. Fes-In supplying an English translation of Mr. Brull's paper, Mr. Fesquet has furnished a most important supplement to that of Mr. Urbin. It appears that when steel had begun to be employed in large quantities in industry certain objections had been raised before the Society of Civil Engineers, Paris, by persons not afraid of a novelty, but having great responsibility resting upon them. Thence a greatscrutiny and severity in the trials of reception. Since that time the manufacture of steel on a large scale has made great progress, many experiments on the resisting properties of iron and steel have been made, and steel has become better known. Mr. Brull demonstrates that, the objections to the use of steel are vanishing, and his theoretical and practical observations will be interesting to the engineer and ironmaster. In explaining to the society the numerous and important ironmaster. In explaining to the society the numerous and important ironmaster. In explaining to the society the numerous and important trials made by the Northern Railway to apply steel to various uses where iron previously was generally employed, Mr. Nozo arrived at the conclusion that in the great majority of cases the results with steel are indifferent, sometimes even bad. With the exception of what is appertaining to the roadway, where steel seems to succeed, this metal has been advantageous only with wheel-tyres, and that under certain special conditions. Mr. Tresca, supporting these conclusions with theoretical facts, presented with considerable strength and clearness, sought to prove that steel is more advantageous than iron only when the pieces are submitted to friction and surface action. The object of Mr. Brull's memoir is to protest against the conclusions

The object of Mr. Brull's memoir is to protest against the conclusions drawn by Mr. Nozo from his experiments, and supported by Mr. Tresca with scientific considerations. He points out that since L. Tresca shows to secure the same strength the steel-rod would be 40 per cent, smaller than the iron one, and that admitting the necessity of providing increased size to allow for repeated strains, it is obvious that whatsoever be the surplus strength provided the steel-rod will always remain 40 per cent. smaller than the iron one. Mr. Brull then proceeds to comment upon and point out the conclusions to be drawn from the results of the experiments at Glasgow by Mr. D. Kirkaldy on over 1300 samples of iron and steel of every kind. He remarks that all Mr. Kirkaldy's results show clearly that for resist-

^{* &}quot;Practical Guide for Puddling Iron and Steel," by Edw. URBIN. "Comparison of the Resisting Properties of Iron and Steel," by A. BRULL. Translated from the French by A. A. FESQUET, chemist and engineer. Philadelphia; Baird. London: E. and F. N. Spon, Charing-cross.

ance alone all the various qualities of bar or sheet-iron come after various kinds of steel; while considering the extensions or elongations, we find that some kinds of steel, with a great deal more resistance, have an extensibility equal, and often superior, to that of the most ductile irons. In this book, so rich in precious facts, are found also 90 experiments, where the successive extensions by increasing charges up to rupture have been measured. Unhappily, the small length of the samples did not allow the measuring of the very minute extensions during the period of elasticity. From these experiments no value can be had for the co-efficient of elasticity nor for the limit of elasticity. However, it is possible to scertain that, while under a strain of 30,353 lbs. per square inch, iron had been extended very generally more than 1 millimetre (0·03,937 inch), which is a proof that the limit of elasticity was outdone, steel had not shown a measurable extension with the same instrument and a strain of 50,589 lbs. Moreover, the calculation of the area of some of the numerous curves of resistance given by the author in his book will show that in many cases various qualities of steel have an area larger than that of very resisting and ductile irons. From the experiments of Mr. Kirkaldy we see also that it is incorrect to say, in a general way, that steel is more brittle than iron. Certainly, there are steels more brittle than certain kinds of iron, and everybody will acknowledge with Mr. Tresca that these steels should be used only when great hardness is required; but there are also ductile steels, more so even than most irons, and which, besides that great ductility, have a much superior resistance. For those kinds of steel we can certainly take back the ance alone all the various qualities of bar or sheet-iron come after

required; but there are also ductile steels, more so even than most irons, and which, besides that great ductility, have a much superior resistance. For those kinds of steel we can certainly take back the resstrictions we were obliged to admit previously.

Turning from the theoretical to the practical consideration of the subject, Mr. Brull proceeds to examine the facts given by Mr. Nozo, to ascertain whether they can truly impress such a grave conviction, and he completely demonstrates that the facts presented by Mr. Nozo as the state of the st to ascertain whether they can truly impress such a grave conviction and he completely demonstrates that the facts presented by Mr. Nozo are not such as to dissuade builders from the employment of steel that this metal, such as found in industry, has over iron the advantages of more resistance and more elasticity, and that it can be properly applied to resist permanent strains or shocks, whenever it is advantageous to have a reduction of weight or a greater security, and when a slight change in the shape of the pieces will be without consequence. In conclusion, he examines the objection raised to the variety of kinds of steel found in the market. Such variety does not belong to steel alone; there is as much difference in the properties of the iron used to make the Welsh rails, called American rails, or the charcoal iron from Audincourt or Clavières, or the Bowling and Lowmoor iron, as there is between the worst puddled steel and the most refined and cemented cast-steel used for tools. Some researches in the book of Mr. Kirkaldy will prove that differences in quality are not greater with steel than with iron. All msterials used in industry are situated the same; we have many kinds of copper, many qualities of tin, many sorts of wood. Nobody yet thought of complaining of that diversity; on the contrary, the builder can dispose of various materials whose properties and prices can be better adapted to special uses. But what, he asks, must the engineer do to obtain the greatest advantage of that diversity? He will study the properties of the materials he has to use; he will become familiar with their varieties; he will learn to adapt to a particular practical use those of various marks and fabrications. Such an education or study is to be made, or rather perfected, in regard to steel, which is a comparatively new material; and he thinks the best way to obtain a success, which appears certain, is not to be afraid at the beginning of certain difficulties in its use, but to master a complete knowledge by cess, which appears certain, is not to be afraid at the beginning of certain difficulties in its use, but to master a complete knowledge by practical experience of all the various kinds of steel, and of their most proper uses.

DICTIONARY OF CHEMISTRY.

The completion of Mr. WATTS's elaborate Chemical Dictionary* affords an opportunity for a brief general notice of the entire work, which is, perhaps, the more necessary in consequence of the very lengthened period which has been occupied by the issue—about nine years. Although the time chosen for the issue of the Dictionary was The completion of Air, wartes 8 emotive Chaemican Detailment, which is, perhaps, the more necessary in consequence of the very lengthened period which has been occupied by the issue—about nine years. Although the time chosen for the issue of the Dictionary was one at which the want of such a book was much felt by chemists as well as by those engaged in industrial pursuits involving the application of chemical knowledge and the properties of the properties of the waste of the waste

* "A Dictionary of Chemistry, and the Allied Branches of other Sciences."
By HERRY WATTS, B.A., F.R.S., &c., assisted by eminent contributors. Five
Yolumes. London: Longmans and Co.

of the publication of the work, and the important changes which have taken place in the interim in the opinion of chemical authorities, Mr. Watts remarks place in the interim in the opinion of chemical authorities, Mr. Watts remark that the earlier volumes are somewhat behind the present state of knowledge but this difficulty it is proposed to meet by the publication hereafter of a Supple ment, so that the work can scarcely fall to secure the position it is so well entitle to, that of the most important chemical dictionary in the English language.

FOREIGN MINES.

ST. JOHN DEL REY MINING COMPANY (Limited).-Advices re-

ST. JOHN DEL REY MINING COMPANY (Limited).—Advices received May 2, ex Seine steamer.

Morro Vello, March 28.—General Operations: Since giving the usual monthly summary, on the 17th current, our general work here, as then reported, has been carried on steadily, without any interruption. We have an abundant supply of water for our present purposes, though the rain fall during the month has been unusually small.

MINES.—In the Gamba Mine, and in those sections of the East and West Quebra Panella and Timbuctoo, the stoping has been prosecuted with about the same amount of force, and to the same extent, as previously advised. The mineral from those sections appears to continue about the same in quality, and the supply scarcely so large as during the first fortnight of the month.

GAIA MINE.—The quantity of mineral available from this lode during the second division of March has just been sufficient to supply an average of 16 heads of the stamping-mill. The lode is being opened its full width (about 20 ft.), and stoped upwards, so as to gain better stoping space. As yet we cannot quarry nearly enough mineral for the supply of 24 heads of stamps.

EXPLORATIONS.—The level at this mine is being continued westward, and is now passing through the covering of the second formation. In this Capt. Joze Maria da Cunha Jardim worked last, following down the layer, when he was excluded from the Gaia lode by water, and the failing in of the sides. At the Gabiroba lode a little ore is being quarried, and conveyed down on a temporary roadway to Gaia stamping-mill. We had not sufficient ore to justify an experiment during the past division of the month, but it will be now commenced in the first division of April.

MATTO VIRGIN LODE.—The openings have been cleared, and the water let off from the old workings.

the first division of April.

MATTO VIRGIN LODE.—The openings have been cleared, and the water let off from the old workings.

REDUCTION DEPARTMENT.—The supply received from the mine has not been quite so large as during the first division of the month. About 100 wagons daily have been brought in from the killas heap adjacent to the works. This is now of an inferior quality, being that previously picked over in time of scarcity, when the quantity of killas rejected was small. It is also brought up on a level with the same size for the killas heretofore reported, the stamps and arrastres kept regularly at work, and the amalgamation-house machinery has operated satisfactorily. The quantity of sand caught on the strakes is about the usual average from the stone being treated.

Praid Works.—Both stamps and arrastres have been kept fully employed in the re-treatment of the sand here. A considerable proportion of that required for the stamps is now brought in from the depôt of sand, heretofore deposited close to the works. It is brought in by tramway, and delivered into the passes.

The killas now available for re-treatment of the sand is of inferior quality.

Gold Extracted to Date.—The produce from the general stamps for the second division of March, being a period of 11 days, is as follows:—

From General stamps:—

Oltavas.

Tons of orc. Oits. p. ton

From Reneral stamps:—

Tons.

Olts. per ton.

At Gala, during the same division, an average of 16 stamp-heads were kept supplied, and from them was received the following produce—viz., 313 oitavas. This produce is smaller than might have been expected from the assays made of samples of the lode, but we have not yet got a fair general section of lode, to show clearly how much its gold contents in the stamps with the division of May.

Don Pedro, March 28.—The gold troop was dispatched the samilness of the remittance now sent, but an effort will be made to send a better one in May.

Don Pedro North Del Rey.—F. S. Symons, April 2: Remittance,

remittance now sent, but an effort will be made to send a better one in May.

Don Pedro North Del Rey.—F. S. Symons, April 2: Remittance, 23,550 oits.—2717 ozs. troy; this exceeds the last one by 2030 oits. The works have progressed steadily. Lines Nos. 1 and 2 being poor, have not been followed. No. 3 has been worked regularly, but has been very poor, although remaining well defined. No. 4 has been fluctuating, but has given, on the whole, good vein stuff, and would have given much more had we not been thrown back in the beginning part of the month by the damp which settled in it. The water is increasing in Nos. 3 and 4 lines. We have Californian pumps at work in both, as much speed in sinking on these lines cannot be made when we have to contend with water. The general body of lode is looking and yielding well. The shallow and middle addts have been worked day and night, with three corps in each; the ground in the first continues wet and troublesome. In the second the end is in hard blasting ground. The deep adit is still in abeyance. Produce cleared up to date, 10,373 oits.—1196 oss. troy.

Angle Regulular.—F. S. Symons, Angil 2: The produce cleared

Anglo-Brazilian.-F. S. Symons, April 2: The produce cleared ANGLO-BRAZILIAN.—F. S. Symons, April 2: The produce cleared up to March 20 amounted to 1756 olts. of gold. On the 26th ult. I forwarded to the agents a box, No.4, containing 5283 oits, of gold (609 ozs. troy), derived as follows:—Last division of January, S71 oits.; Féburary produce, 2656 oits.; produce cleared up to March 20, 1756 oits. The works have proceeded with regularity. The ground between Dawson's south and tanks drained is being broken away, and a large body of lode laid bare, which is highly impregnated with eace and pyrites, and I have no doubt will yield well when in working order, and give a good supply of stone. In the Buraco Secot there is little alteration. At Haymen's we have a large body of premising lode: and at Foster's there is an improvement, so that, on the whole, the mine is looking well. A corps has been put to work in the Barril adit, to open a communication to Barril Mine, the stone from which will be tested shortly, when force can be spared. The deep adit is being worked day and night; the end is more wet than formerly—a good sign, and lines of syrites and cace are appearing. The attendance at the mine has been the best we have yet had. The measures adopted to obtain an additional force have been attended with success.

ROSSA GRANDE.—Ernest Hilcke, March 31: We have intersected with the old workings in the air-shaft about 12 fms. above the adit on the underlief of the look of the content of the

ROSSA GRANDE.—Ernest Hilcke, March 31: We have intersected with the old workings in the air-shaft about 12 fms. above the adit on the underlie of the lode, and found by examining the same that large bodies of lode, of a highly auriferous nature, are left here, which may give from 7 to 9 oits. of gold per ton, the exact yield I cannot ascertain before the cleaning up for the month is fluished. The lode in the end of the adit level still continues hard; its size leads to the most promising expectations, for in driving the level we have a good hard lode in the bottom and back. The favourable appearance of the lode in the shaft as well as in the level has brought me to the conclusion to commence building a second-hand stamps without delay, and to suspend for the time the preparation of the bauling and pumping machine for the Bahu Mine. The greatest part of the wheel for this machine is completed, and will come in for the stamps. Since the intersection with the old workings in the shaft an extra force has been put there for stoping, and therefore the Bahu Mine Jacotinga exploration has been worked secondary. Remittance, 2006 oils.—241 ozs. troy.

LAGUNA.—J. R. Rule, March 27: As zoon as the drainage is com-

preparation of the hauling and pumping machine for the sanu Mine. Ince greatest part of the wheel for this machine is completed, and will come in for the stamps. Since the intersection with the old workings in the shaft an extra force has been put there for stoping, and therefore the Bahu Mine jacoting exploration has been worked secondary. Remittance, 2996 oits.—241 ozs. troy.

Laguna.—J. R. Rule, March 27: As soon as the drainage is completed, which I expect will be in the course of another four or five days, I shall commence the sinking of the shaft. The water is now drained to about 68 varas, and as the main working is above that level, the space below being little more than the shaft, the drainage of the remaining piece wexpect will be concluded early in the ensuing week, and as soon as possible sinking will be commenced.

LUSTANIAN.—April 28: Palhal Mine.—Basto's Lode: A River shaft, below the 90, the lode is 2 ft. wide, composed of flookan. The lode in the 120, west of Taylor's, has in the late 6 ft. greatly improved, and is now worth 3 tons of ore per fm. In the 120, east of Taylor's, the part of the lode that has been taken down yields 2 tons of ore per fm. The shaftmen will now go back to the shaft to put in penthouse, bring down skip-road, and do the preparatory work for slaking below the 120, which we hope to begin about the end of this month (May). The 110, east of Taylor's, produces 1 ton of good ore per fathom. The 110, west of Taylor's, yields ½ ton per fm. The lode in the 100, east of Taylor's, is 1½ ft. wide, composed of flookan, and containing at times small stones of over. The 90, east of River shaft, is composed of a dry flookan.

33, west of Perez' shaft, continues in an unsettled state. The lode in the 10, and the shaft was the shaft, west of Perez' shaft, the lode is very small, but it contains copper or in small quantities, and small streams of water issue from it.—Caunter Lode: The lode in the 100, west of cross-cut, at Taylor's, is in a very unsettled state, which we think is occasion

2 tons per fm.—Stopes on Great Lode: In the stopes above the 20, east of incline shaft, the lode yields 34 ton per fm. In the stopes above the 10, east of incline shaft, the lode yields 34 ton per fm. In the stopes above the 30, east of No. 5 winze, the lode yields 134 ton per fathom.

PESTARENA UNITED.—E. Francfort, May 4: We have remitted to-day, to the office, 1025 ozs. gold The remittance would have been larger had we not been very short of water. We have now a full supply.

to-day, to the office, 1025 ozs, gold The remittance would have been larger had we not been very short of water. We have now a full supply.

RHENISH CONSOLS.—G. Sweet, April 30: Christiana: In handing you my usual monthly report, I am glad to state the drivage west, in the 10 lachter level, has realised the expectations expressed in my last monthly report. This end will now afford fully 2 tons of lead ore per lachter; and from indications in the adit level we have reason to suppose this shoot of ore to be a great many lachters long. The drivage west, in the 20 lachter level, will afford 1½ ton of lead ore per lachter. Be drivage east at this level will yield 1 ton of lead ore per lachter. The drivage east at this level will yield 1 ton of lead ore per lachter. He have bored a hole from the bottom of this sink to the 20 lachter level, which has let down the water. In the drivage west, in the adit level, there are good ribs of blende, with but little lead. The stope in the roof of this level, west of Sweet's, on the north lode, in the 10 lachter level, is still poor. A cross-cut far drivage west, on the north lode, in the 10 lachter level, lachters west of the cross-cut, for the purpose of intersecting the middle lode, in this cross-cut are good spots of copper ore. The stopes on the middle lode, in the 10 lachter level, and 10 lachters west of the cross-cut, will afford 14 centners of lead ore per lachter. A stope in the adit level, in lachters west of the cross-cut, will afford 14 centners of lead ore per lachter. A stope in the adit level, in lachters west of the cross-cut north, cast of the cross-cut, will afford 15 centners of lead ore per lachter. The lode intersected in the cross-cut north, east of the cross-cut, in the adit level, is from 4 to 9 luches wide, and composed of blende, with a little lead ore. A rise putting up from the 10 to the adit level, on the north lode, will afford 10 centners of lead ore per lachter. The tribute bargains on the south lode are affording a fair quantity of blende. Fahren

total, 1865 thalers; deficit, 55 thalers.

VAL SASSAM.—T. Rickard, May 2: Ursera: The cantina end was driven 3.25 metres last month, through ground yielding on an average about 2 ewts, of ore per fm. At the present end the lode is strong and regular, but contains very little ore. The driving is re-let to four men, at 85 frs. per metre, and 1l, per month for saving the ore. The cross-cut behind this end has in the past month cut through the limestone and reached the lode, but where cut it is poor. The stopes at the cantina gallery are the same as at the time of my last report—that is to say, they continue to yield at the rate of 4 ewts. of ore per square fathom. The Nora end was driven 5 metres during the month; the lode is regular, and now and then produces stones of ore, and looks kindly. The end is re-set to three men, at 50 frs. per metre, inclusive of transport. The tribute pitches have yielded to estimate during the month, and are set again at nearly the same conditions as for April. On the 4th of last month we forwarded to England 8372 kilogrammes of Ursera ore, and on the 25th other 9664 kilos; together, nearly 17 tons. We estimate that the sampling for the present month will be nearly 15 tons.—Tospino: This week we have been working in the dressing-floors at the mine. The weather is too uncertain at this time of the year to admit of estimating the produce, but if it continues favourable there will be a nice batch of ore ready at the end of May.

PONTGIBAUD.—W. H. Rickard, May 1: Roure: We are making

PONTGIBAUD.—W. H. Rickard, May 1: Roure: We are making preparations to sink below the 125 metre level, at Richards's shaft, which will be commenced in a few days. The rise in the back of the 125 south yields stones of re. The 89 metre level south is in a kindly lode, yielding a little crey stuff. The rise in the back of the 125 south yields stones of ore, the 89 metre level south is in a kindly lode, yielding a little crey stuff. The rise in the back of this level is in soft, unproductive ground. The 60 metre level south is unproductive. The 40, in the same direction, shows spots of ore, not enough to save. The adit south of Richards's is unproductive. The stollen north and south of Virginie's shaft, on Virginie's lode, is poor. The stollen south of whim-shaft is looking more kindly.—La Grange: The 80 metre level, north of Nosky's shaft, yields' ½ ton of ore fm. The 60 metry lyield a little savil, north, on No. 6 lode, is in disordered ground.—La Brusse: Sinking Basset's shaft below the 80 metre level goes on pretty well. The 50 metre level south yield ton of ore per fm. The 60, on the western split, yields ¾ ton per fm.; in the same level, the lode where being undercut yields 4 tons of ore per fm. The 40 more level, the lode where being undercut yields 4 tons of ore per fm. The 40 metre level goes is not productive. The surface shaft sinking on the western lode is a little harder, and more spare for sinking, being also a little wet.—Pranal: The 75 cross-cut west is in very hard ground. The 50 metre level, north of junction, on 8t. Matthew's lode, yields ¾ to no fore per fm. The 30 south yields ½ ton of ore per fm. The 30 north yields ¼ ton of ore per fm. The 8 cross-cut, yield about ¾ ton per fm. each. The 30 north is poor. The 30 south yields 1 ton of ore per fm. The 8 north yields ½ ton of ore per fm. The 8 north yields ½ ton of ore per fm. The 8 north yields ½ ton of ore per fm. The 8 north yields ½ ton of ore per fm. The 8 north yields ½ ton of ore per fm. The 8 north yields 1 ton of ore per fm. The 8 nort PONTGIBAUD.-W. H. Rickard, May 1: Roure: We are making

LINARES.—April 25: West of Engine-Shaft: The lode in the 110, west of Santo Tomas engine-shaft, is small, at present yielding \(\frac{1}{2} \) ton of ore per fathom. The 75, west of Warne's engine-shaft, produces \(\) ton of ore per fathom. The 75, west of Warne's engine-shaft, produces \(\) ton of ore per fathom. The 10de has changed very unfavourably in the past week. The \(\) l, east of Santo Francisco shaft, yields \(\) ton of ore per fathom. This is easy for driving, and is opening good tribuit ground.—East of Engine-Shaft: The lode in the 95, east of To. 164 winze, produces \(\) ton of ore per fathom: East of Engine-Shaft: The lode in the 95, east of To. 164 winze, produces \(\) ton of ore per fathom: the lode is large, consisting chiefly of carbonate of lime and stones of lead.—Shafts and Winzes: Warne's engine-shaft, shiking below the 75, produces \(\) ton of ore per fathom: the lode is large, consisting chiefly of carbonate of lime and stones of lead.—Shafts and Winzes: Warne's engine-shaft, shiking below the 75, produces \(\) ton of ore per fathom. An unusually good month's work has been done in this shaft in the past month, during which time the lode has functuated greatly, and was at one time worth treble its present value. No. 155 winze, below the 61, is holed to the 73, and has opened a fine piece of tribute ground. No. 157 winze, below the 61, produces \(\) ton of ore per fathom. This new winze is situated west of the last-named, and is going down in a very strong and promising lode. No. 158 winze, below the 85, produces \(\) ton of ore per fathom. This new winze is on San Francisco lode, and is going down in moderately productive ground. San Jose shaft, below the 85, with \(\) ton ore per fathom; this new winze is on San Francisco lode, and is going down in moderately productive ground. San Jose shaft, below the 85, with \(\) to ore per fathom; this new winze is on San Francisco lode, and is going down in moderately productive ground. San Jose shaft, below the 85, with the surface o LINARES .- April 25: West of Engine-Shaft: The lode in the 110,

the point of the lode is very small in the end of the shaft, but we expect it will begin to improve immediately.

FORTUNA,—April 25: Canada Incosa Mine: The lode in the 110, west of O'Shea's shaft, is large, producing \(\frac{3}{2} \) ton of ore per fathom. In the 100, west of O'Shea's shaft, the ground is more favourable, and the men are making good progress in driving. The 90, west of Judd's shaft, yields \(\frac{3}{2} \) ton of ore per fathom. The 10de has fallen off both in size and value. No change has taken place in the 80, west of Judd's, since our last report; the lode is worth \(\frac{3}{2} \) ton of ore per fathom. The 70, east of Carro's shaft, produces 1 ton per fathom. This is rather disordered by a hard bar of ground, which we hope to get through shortly. In the 55, east of San Tomas shaft, the lode, which is very small, produces \(\frac{1}{2} \) ton of ore per fathom. The stound in the 80 cross-cut south is somewhat harder than it was.—South Lode: In the 50, east of San Pedro shaft, the lode is large, and has a very promising appearance, and yields \(\frac{1}{2} \) ton of ore per fathom. The 50, west of San Pedro shaft, the lode is of a promising character. In the 40, west of San Pedro shaft, the lode, which is small, produces \(\frac{1}{2} \) ton of ore per fathom; the ground is easy, and the lode is of a promising character. In the 40, west of San Pedro shaft, the lode, which is small, produces \(\frac{1}{2} \) ton of ore per fathom; the ground is hard. In Gomez' winze, below the \(\frac{1}{2} \), the lode is still small and valueless.—Los Salidos Mine: The lode in the 100, west of Morris's shaft, has not improved as we expected, judging from the level above. The lode in the 65, west of San Carlos shaft, is small and compact, yielding \(\frac{3}{2} \) ton of ore per fathom, and the ground is easier for driving. The lode in the 100, east of Morris's engine-shaft, is large and strong, composed of quartz and carbonate of the lode. The 75, east of San Pable, although not so productive as i split into branches, with a little lead. Carrascosa's winze, below the 75, produces 1¼ ton per fathom. We expect to hole this with the 90 in a few days. Calegon winze, below the 55, is situated to the west of Candido's winze, and in advance of the 65 end west; it yields ½ ton per fathom.

Calegon winze, below the 55, is situated to the west of Candido's winze, and in advance of the 65 end west; it yields \(\frac{1}{2} \) ton per fathom.

ALAMILLOS.—April 25: The lode in the 4th level, east of Ln Magdalena shaft, is still large, and spotted witt. lead; it is not, however, so productive as it has been, yielding now \(\frac{1}{2} \) ton of lead ore per fathom. The 4th level, west of La Magdalena shaft, yields 2 tons of ore per fathom; this is a productive and promising lode, and much better than it was in the level over lt. In the 4th level, east of Taylor's engine-shaft, the men are put to cross-cut north to hole to the last-named end. The lode in the 5th level, east of Taylor's engine-shaft, is large, open, and easy for driving, and produces \(\frac{1}{2} \) ton of ore per fathom. The lode in the 5th level, west of Andriano shaft, the lode has changed unfavourably of late. The 3d level, west of San Yago, produces 1 ton of ore per fathom; the lode is improving, and letting out much water. The lode in the 2d level, west of Crosby's cross-cut, is small at present, producing \(\frac{1}{2} \) ton of ore per fathom.—Shafts and Winzes: In Taylor's engine-shaft, below the 5th level, we are cutting the clatern-plat preparatory to sinking to a 6th level. San Gwillermo shaft, below the 1st level, yields 1 ton of ore per fathom. The 3d level, west of San Yago, having drained the water we have resumed the sinking to a file level. San Gwillermo shaft, below the 1st level, yields 1 ton of ore per fathom. The 3d level, west of San Yago, having drained the water we have resumed the sinking to a file level. San Gwillermo shaft, below the 1st level, yields 1 ton of ore per fathom, this is going down in a kindly lode. The stopes yielded very well in the post month, and we are a shie to estimate the raisings at 300 tons for May (five weeks). The machinery is in very good working order, and all surface operations are going on with the usual regularity.

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WATSON BROTHERS' MINING CIRCULAR.

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ESSRS. WATSON BROTHERS return their most sincere

thanks for the great patronage bestowed and confidence reposed in their firm for 25 years, and to assure their friends and clients it will be their earnest endeavour to merit a continuance of both.

Messrs, WATSON BROTHERS have made arrangements for continuing their weekly Circular, which has had a large circulation for many years, to the columns of the Mining Journal, their special reports and remarks upon mines and mining, and state of the share market, will in future appear in this column. In the year 1843, when Cornish mining was almost unknown to the general pablic, attention was first called to its advantages, when properly conducted, in the "Compendium of British Mining," commenced in 1837, and published in 1843, by Mr. J. Y. WATSON, F.G.S., author of "Gleanings among Mines and Miners," "Records of Ancient Mining," "Cornish Notes" (first series, 1862), "Cornish Notes" (second series, 1883), "The Progress of Mining," with statistics of the Mining Interest, annually for 21 years, &c., &c. (a. In the Compendium, published in 1843, Mr. WATSON was the first to recommend the system of a "division of small risks in several mines, ensuring success in the aggregate," and Messrs. WATSON BROTHERS have always a selected list on hand. Perhaps at no former period in the annals of mining has there been more peculiar need of honest and experienced advice in regard to mines and share dealing than there is a tpresent; and, from the lengthened experience of Messrs. WATSON BROTHERS they are emboldened to offer, thus publicly, their best services to all connected with mine or the market, as they have for so many years done privately, through the medium of their own Circular.

Messrs, WATSON BROTHERS transact business in the purchase and sale of the lower contractions and transmission.

emboldened to oner, thus publicly, their nest services to at connected with mine or the market, as they have for so many years done privately, through the medium of their own Circular.

Messrs, WATSON BROTHERS transact business in the purchase and sale of mining shares, and other securities, payments of calls, receipt and transmission of dividends, obtaining information for cilents, and affording advice, to the best of their knowledge and judgment, based on the experience of more than 30 years active connection with the Mining Market.

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ways equal the expectations they may have need out in a property as mining.

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North State Caradon, 4 to 4½; Chiverton Moor, 6½ to 6½; Chiverton Moor, 6½; Chiverton

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABRAHAM CONSOLS.—John Vivian, May 7: The ground continues very hard in sinking No. 2 shaft, and the lode much disordered by several small slides or cross-courses failing in from the north, and dipping south; the lode yields good stones of tin, but not enough to value. I hope we are nearly through these slides, as the lode appears to be a little better defined and more regular in the north side of the shaft.

BALLACORKISH.—Capt. Grose, May 2: Since my last the ore in the back of the 17 has improved, and at the present time is turning out a fair quantity of stuff. The ground in the drivage from bottom of winze presents a most promising appearance, occasionally yielding stones of ore, and there is every indication to justify the belief that good deposit is close at hand. The men are getting forward satisfactorily with the drivage of the add end, and in an pleased to say the ground has become more favourable for progress. We are dressing and preparing for another earge of ore.

BEDFORD UNITED.—J. Phillips, May 6: The lode in the shaft is 4½ feet wide, and worth for the length of the shaft (12 ft.) from 7 to 8 tons of ore per fathom. We are driving by the side of the lode in the 90 and 75 fm, levels cast. The stopes in the back and bottom of the 75 average 3 tons of ore per fathom. The pitches are looking much the same as for some time past.

BOTTLE HILL.—J. Eddy, May 7: South Lode: The bode west of shaft, in the 12 fm, level, is about 3 ft. wide, and turning out about the same as to quality as for some time past.—Main Lode: The bribute pitches both in the 12 fm, level, is about 3 ft. wide, and turning out about the same as to quality self be about 4 tons.

BRONELOYD UNITED.—T. Kemp, May 6: Settings for May: Six men to continues large, from t to 6 ft. wide. We have commenced burning for sampling. The quantity will be about 4 tons.

BRONELOYD UNITED.—T. Kemp, May 6: Settings for May: Six men to continue slaving, from to the lower of the source of the consecut, in the 63, at 50s, per fathom; lode worth

fully 20 cwts, of ore per cubic fathom. The stope to the west of the winze, in the back of the same level, continues to be worked by the day; iode producing 20 cwts, of ore per cubic fathom. We shall sample to-morrow (Thursday) 62 tons of lead ore.

BRYN GWIOG,—S. Harper, May 6: The lode in the 85 fm. level west is still looking very promising; it is about 1 ft. wide, composed of soft spar, clay, and nice lumps of lead ore, but not yet sufficient to value. At Bramwell's shaft, shaking below the 75, the lode is about 4½ ft. wide, containing a little lead; in consequence of drawing off the tributers' leadstuff we have not been able to do much in the sinking, but we have been pushing on the 83 with the extra men. The lode in the 75, west of the said shaft, is still small, carrying a small leader of lead; but, looking at the run of lead from the bottom of the old 66 in advance, I am daily expecting to meet with a good lode in this end. The lode in the back of this level working on tribute ls worth 2½ tons per fm., and likely to continue for some time. I have set a piece of old ground in bottom of the 66, about 10 fms. in advance of the 75; and, having removed some old rubbish, advised the men to open on the south side of the old working, which the men did, and are glad to say we have met with a good lode of lead ore; so far as I could see yesterday it was worth 3 tons per fm., the lode being about 3 ft. wide; whether it be only a good deposit of lead left by the old workers, or whether it will continue behind their workings, I cannot say at present; a week or so will throw a great light on this point; nevertheless, it looks very promising at present, and I hope it will continue. I have set four men to stope the bottom of the old 66 west, in order to let off more of the water from the old mine, so that I may be able to go further back into the old ground, where a great many more pitches can be worked at a good advantage. No alteration to remark in the 66, east of engine-shaft, since my last. The pluthes generally th

ally, to ascertain the best part on which to sink. The 68 fathom level west has slightly improved.

OARNARVONSHIRE CONSOLS.—R. Roberts, May 6: Coed Mawr Pool Mine, West Driving: No change since I wrote last week. The parallel lode west is ust the same.—East Driving: The ore continues in the top of the level.—South Driving, on New Lode: Little specks of ore in the forebreast this morning.—Addt Lovel: No alteration, but driving progressing.—Pencraig Mine, West End: The lode is about 2½ ft. wide, and very good ore in some parts of it; it is worth 15 cwts. to the fathom. The east end is not so good, but I expect an alteration seen. I am pushing on with the dressing.

CHIVERTON.—J. Juleff, J. Borlase, May 7: In the engine or Cookney's shaft sinking below the 120; the lode is large, composed of quartz and mundle. In the 110, east of engine-shaft, the lode is 18 in. wide, and worth 5 cwts, of silverlead per fathom. In the 78, east of the old engine-shaft, the lode is 5 ft. wide, composed of mundle and iron. In the 78, east of old engine-shaft, the lode is 18 in. wide, and unproductive. The 78 cross-cut, on the south lode, is 18 in. wide, and unproductive. The 78 cross-cut, north of the old engine-shaft, is letting out a large quantity of water, and from its appearance we think it is nearing a lode.

CHIVERTON MOOR.—James Juleff, William Bennetts, May 7: The engine haltmen are making good progress in sinking below the 75, and are down nearly

CHIVERTON MOOR.—James Juleff, William Bennetts, May 7: The engine shaftmen are making good progress in sinking below the 75, and are down nearly 6 fathoms. The lode in the 75, west of cross-cut, is 2 feet wide, producing good saving work, and dally improving. In the 65, east of the engine-shaft, the lode is 2 ft. wide, producing stones of lead. In the north ground we have commenced to open on a lode east of the trial shaft, which is 2 feet wide, composed of spar and stones of copper ore. The stopes continue to look well, and we are getting on well with our next parcel of silver-lead for sale before the quarterly meeting. CRELAKE.—W. Skewis, Wm. Hooper, May 6: The rise in the back of the 74 west will be communicated with the winze in the course of a week or ten days from this date; the lode in it is worth 66. Per fathom. There is no alteration in the 62 since last report; the lode is still composed of spar, mundic, and indicated with copper ore, but not to value. The lode in the 50 west is 1½ ft. wide, yielding saving work for copper and mundic. The lode in the 40 is 2 ft. wide, composed of mundic, capel, and copper ore, worth 41. Per fathom. In the 23 no lode has been taken down for the past week. The stopes throughout the mine are without any change to notice.

CUDDRA.—A. Cundy, May 6: The lode in the stope in back of the 142, west of Walker's shaft, is 6 ft. wide, still very hard, but producing better work for tin, now worth 141. Per fathom. The ground in the rise in back of the level is without alteration, and still spare for progress. In the 130, driving west by the side of the lode, the ground is of a very congenial character for producing mineral, and a little more favourable for driving. The winze sinking below the 130 is down about 5 fathoms. We expect to communicate this winze with the rise from the back of the 42 by the end of the week. We have three stopes working in the back of the 160, west of Walker's shaft; the lode in the western stope is 6 ft. wide, composed of quartz, peach, white iron, and ti

70 feet from surface, and we bave a large bed now before us, equal to the Welsh or Delabole. We have 100 tons now of the different sizes to send away next week, and the quarry is now paying 40 per cent., and I hope to report further improvement in my next, which will be about a fortnight.

DEVON AND CORNWALL UNITED.—Thos. Neili, May 5: The lode in the 34 west is at present worth 6 tons of ore per fathom, but I think in a few days it will improve again.

Let will improve again.

Let will improve again.

Let you see the control of the control

— May 7: No change has taken place since I wrote you last, neither in the shaft or end.

GAWTON COPPER.—G. Rowe, G. Rowe, jun., May 2: Our monthly settings will be to-day, particulars of which we will forward early in the coming week. The lode in the 70, east of cross-out, is worth 2 tons of copper ore per fathom. The lode in the 70 cast of cross-out, is showing indications of improvement, and yields 1 ton of ore per fathom. The lode in the 60 east is worth 4 tons of ore per fathom. The lode in the 50 east is producing a little ore, and showing indications of improvement. The lode in the 50 east is producing a little ore, and showing indications of improvement. The lode in the 50 east is producing a little ore, and showing indications of improvement. The lode in the 50 east is brothed the sworth 51 east of the first worth 52 tons of ore per fathom, which we purpose to set on tribute, with all the ground yielding sufficient ore in the upper levels. Our last samplings weighed off yesterials 249 tons 15 ewts. of copper ore.

GLASGOW CARADON.—W. Taylor, May 5: Caunter Lode: The 78 west is worth 51, per fathom, with ground very much easier, and likely to improve. No alteration in the winze in : he bottom of the 65 since last report. The stopes on this lode continue to yield their usual quantities of ore. Arrol's lode, in the 52 west is worth 81, per fathom. The stopes on this lode are worth from 12. to 161, per fathom. Harvey's Lode: The 65 east is worth 81, per fathom. The 55 west is worth 121, per fathom. The stopes on this lode are worth from 121. to 143, per fathom. We are busy dressing ores for next sampling, which will be on the 11th Inst.; we expect to have about 240 tons.

GREAT LAXEY.—J. Barkell, May 5: The lode in the engine-shaft sinking below the 220 is worth about 401, per fathom, our sinking has been very much impeded of late, owing to our long drawing-lifes, and we now find it absolutely necessary to do away with those drawing-lifes, and we now find it absolutely form.

GREAT NORTH DOWNS.—Wm. Rich, C. Bawden, May 6: The lode in the 34, west of King's, is worth 121. per fathom; we in end to resume the sinking of this shaft as soon as the water is drained off. The ground at Sleggan's shaft is not quite so troublesome for sinking as heretofore; we are continuing the sinking on the south side of the lode. The 74, west of Sleggan's, is unproductive at present; the ground, however, is getting easier, and we think the lode will again improve, as there is a good productive lode in the level over this end. We are stoping the back of the 64, cast and west of winze, which has recently been communicated with in 644, east from Butler's; these two stopes are worth 254, per fathom. We are forcing on the 64 cross-cut south. In the 64 west we have not yet cut through the capels of the lode. Butler's shaft is being sunk on the north side, or under the lode; the ground is stiff; the part of the lode carried yields saving work for copper.

fathom. We are forcing on the 63 cross-cut south. In the 64 west we have not yet cut through the capels of the lode. Butler's shaft is being sunk on the north side, or under the lode; the ground is stiff; the part of the lode carried yields saving work for copper.

GREAT NORTH LAXEY.—R. Rowe, May 1: Having just returned from the mine, I beg to hand the following report:—The engine-shaft is down 7 fathoms 4 feet below the 96; there is not much change in the lode, but the heavy feed of water for some time met with in sinking, coming now direct out of the rock in the footwall of the lode, I have directed the men to cross-cut at the bottom of the shaft, in order to prove whether another part of the lode may not be standing off unseen. The lode in the 96 fm. level end is 3 feet wide, of a very promising appearance, and worth ½ ton of lead to the fathom. The 84 fm. level sump is worth 1½ to the fathom. The atopes in the 73 north are worth 15 eves, of lead to the fathom. The 73 fm. level end south, and the rise close to the end, are in a very encouraging-looking lode, about 4 feet wide, worth 5 ewts of lead per fathom, and producing a small quantity of blende. The stopes in the roof of the 66 are worth 1 ton of lead per fathom. We expect to have 40 tons of lead to sample in about a fortulight.

GREAT RETALLACK.—G. R. Odgers, May 6: The masons have built the house as high as the bottom of the doors. They have all the leading for the cylinder in, so that we may say good progress is being made. All the other surface work is being forced on with the utmost speed.

GREAT SOUTH CHIVERTON.—J. Nanarrow, J. Grose, May 4: At our survey to-day the following work was set:—The 50 to drive east, by two men and two boys, at 4t. per fathom; the lode looks very promising. The 50 to drive east, by six men, at 7t. per fathom; the lode host work of sowell as it does now. The 30 to drive west, by four men, at 5t. per fathom: The 40 to drive east, by two men and two boys, at 4t. per fathom; the lode looks all that can be desired for the pr

level east the lode has improved in the past week; it is now 2 it. wide, producing good stones of copper ore.

GREAT WHEAL BADDERN.—R. Pryor, H. Tregoning, May 2: Hill Brothers Engine-Shaft: In the 75 fm. level cross-cut south the ground is entangled and mixed throughout with branches of spar and mundic, and the water increasing rapidly from the end, which has retarded the speed in driving the last few days; by the present appearance we believe a change will take place at this point-shortly. In the 75, west of the cross-cut, on the lead lode, the ground continues without any change to notice during the past week; the end is still in the elvan course and is being intermixed with veins of mundic, &c., letting out an increased quantity of water, and the lode about 2 feet wide, containing silver-lead, mundic, flookan, and spar.

in the 75, west of the cross-cut, on the lead lode, the ground co-tinues without any change to notice during the past week; the end is still in the elvan course and is being intermixed with veins of mundic, &c., letting out an increased quantity of water, and the lode about 2 feet wide, containing silver-lead, mundic, flookan, and spar.

GUNNISLAKE (Clitters).—Wm. Skewis, J. C. Seccombe, May 6: We have no change to report on the lode or ground in the engine-shaft sinking below the 23 fm. level this week; the men are doing good labour, and, if the ground continues as favourable as it now is we shall soon get it down the required depth for another level. The lode in the 23 is rather reduced in 1ste and values from that reported last week—81, now worth 64, per fathom; this change, I think, will last for about 2 fathoms. The lode in the 12 west is 2 feet wide, composed of spar, mundic, and copper ore—a very kindly lode. The No. 2 winze, in the bottom of this level, is sunk equal to the depth of the 23 fm. level, west from engine-shaft, and the men are now driving cast from the whoze to meet it; the lode in the 1st cold is the 1st level, west from engine-shaft, and the men are now driving cast from the whoze to meet it; the lode in this cold is worth 104, per fathom; we hope to hole this soul in time for the text meeting. The stope in back of the 12 is worth 14, per fathom.

Gwydry since last report. At Gwyn Lillion we tried the engine to-day, and find it works very well.

HARWOOD.—J. Race, May 5: At A cur setting the end of the elvel east at Scar Head vein was set two men, at 48s. per fathom; the end is still poor, and the vein not so strong in Iron rider as it was backward. The end of the drift east in North String is set to two men, at 60s, per fathom, worth ½ ton of ore per fathom. Stope No. 1 east, in Trough vein, is worth 1½ ton of ore per fathom. Stope No. 2, in Trough vein, is worth 1½ ton of ore per fathom; not over east of the engine-shaft, at 110s, per fm; the lode in this end is very large, and producing

We have nxed tackle, exc., of the winze in the bosonic of taction level, under the barytes; here we shall have six men at work at once. All other work goes on regular.

NEW BAMPFYLDE.—C. Hand, May 7: The lot of copper ore now at Barnstaple will be sold on May 14, the delay being caused by the difficulty of procuring carts whilst the farmers were busy at tillage. The experiments for gold have been completed without much success, but by a different mode of treatment the portions of the lode proved to be auriferous may yet be worked so at to yield a profit upon gold, irrespective of that upon copper. The costs, however, of getting, raising, carting, and dressing the ore from the north lode was under-estimated in last monthly report; it will cost about 60s, per ton, and it must be about 5 per cent. produce, at 15s, per unit, to pay a profit. Upon these important points we shall have more reliable data after the sale on the 14th. All the workings on the old or main lode present much the same features and indications as previously reported. The raisings for April were 28 tons, and of a quality that will probably give a small profit over the total working expenditure. The financial position of the company, therefore, is very nearly the same as reported on April 8. No. 4 shaft ought to be sunk 10 or 20 fathoms lower, where a junction of the two lodes north of this shaft would probably be proved, with increased quantities of ore; this, however, would involved a necessity for further calls, and is, consequently, opposed by some of the directors. The question for the half-yearly meeting in June will, therefore, probably be to consider whether it be advisible to sell the property, and wind-up the company, or to pay up further capital.

NEW GREAT CONSOLS.—Richard Pryor, Richard Trathen, May 4: Ellis's Engine-Shaft: The men in this shaft, during the past week, have made good progress in forking the water, and we hope shortly to reach the 75, which is being pushed on with all speed. The tributers are busily engaged breaking copper ore, and no time will be lost in getting the same dressed for sale.

NEW TRELEIGHI.—S. Michell, May 6: The lode in the new shaft sinking below the 70 still increases in size as we go down; it bears a good appearance, below the 70 still increases in size as we go down; it bears a good appearance, and is thickly studded with good copper ore; the ground about the lode partable stakes of a different character altogelier to that of the stratum wherein the takes of a different character altogelier to that of the stratum wherein the takes of the foreign of the stratum wherein the takes of the foreign of the stratum wherein the takes of the ground and ventilate that level, so as to enable us to raise ore.

NEW WHEAL TOWAN.—Richard Pryor, May 6: We have not intersected the lode in the adit level west of the cross-course as yet. The men are still engaged in driving north, in order to cut the same.

NORTH DOWNS.—John Grenfell, May 5: In the 85 west we are making good progress in driving, but the lode is still unproductive. In the 60 west the lode is at present disordered by a patch of killas and spar coming in from the south, now worth 51. per fathom; but, as the lode is still embedded in a good clvan, we are of opiuion it will soon improve again. There are two stopes in the back of this level is worth 81. per fathom, but, as the lode is still embedded in a good clvan, we are of opiuion it will soon improve again. There are two stopes in the back of this level is worth 81. per fathom. The vince sinking below the 50 fm. level is worth 81. per fathom, with a promising appearance. The 50 to drive as from cross-cut to communicate with the 50, driving west from point of horse, the lode is worth 101. per fathom. In the 50, west from A

has word in the back of this level is worth 12t, per fathom. In the 50t, west from point of horse, the lode is worth 10t, per fathom. The 40 west is producing stones of ore, but not to value. No change in any other yet out we to day set the add it to drive north on No. 2 lode by six men, at 44s. per fathom is producing stones of ore, but not to value we have a support of the stone of the ston

to develope the lode at a deeper level. The Great Pendeen lode will be fully proved during the coming quarter in the 164 fm. level. From the several important points now in operation, we think we have more than ordinary chances of success.

PENHALE UNITED.—R. Pryor, H. Bennetts, J. Pryor, May 5: Phillips's engine-shaftmen have commenced dropping a lift below the 80, in order to reach the 90 (the bottom of the mine), which is being pushed on with all possible speed. Morcom's shaft is cleared, secured, and footway put in to the 50, and we expect to see the 60 shortly. The dressing of lead, as well as the surface work, is being done satisfactorily, and our machinery continues to work well.

PENHALE WHEAL VOR.—Wm. H. Martin, May 6: In Hollingsworth's engine-shaft we have cased and divided from the 74 to the 84, cut plat, put in pent-house, &c., and the men are now engaged sinking below the 84 with good speed.—Penhale North Lode: The lode in the 60, west of Holroyd's shaft, is much the same as last reported. We are compelled to suspend the sinking of the winze in bottom of the 50 west, owing to increase of water, until the 60 fm. level west end is driven under to drain in; we have put these men for a few days to stope a piece of ground in the bottom of the 50 fm. level. Little Benjamin's shaft will be holed to the 50 by the end of this week; the lode in the shaft is 91n, wide, and will yield sufficient tin to pay for sinking; and as soon as the shaft is cased we shall continue the sinking below the 50 in whole ground, as well as commence to drive the west end towards the bounder cross-course. The tribute department is without change.

PRINCE OF WALES.—J. Gifford, W. Gifford, May 7: In the 65 cast the lode is 1½ ft. wide, producing a little saving work of low quality. In the 65 vest the lode is 1½ ft. wide, composed of capel, quartz, and mundle, with stones of yellow and black copper ore intermixed—a very kindly end. In the 55 east we the lode is 2 ft. wide, composed of capel, quartz, and mundle, with stones of yello

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good and profitable. ROSECLIFF AND TOLCARNE.—R. Pryor, T. Gundry, May 5: There is no

particular change taken place in this mine during the past week. Priday next being our ray and setting, a full report shall be sett 3 you. May 5: The belot is a control of the past of the past when the past of the past of

saving work for copper ore; the lode in this end has a better appearance, and the indications are such as lead me to expect shortly a more productive lode. I am glad to say that the mine is looking better than it has at any time before. WEST CARADON.—W. Johns, May 5: In the winze sinking in the bottom of the 170, in the cross-course, the ground is moderately easy for progress, but as we are sinking the water seems to be increasing. Allen's lode, in the 170 east, is about 1½ ft. wide, and spotted with ore throughout. The rise in the back of this level is holed to the winze sinking below the 155, which has now well ventilated this part of the mine. Clymo's lode, in the 128, east of the cross-cut, is about 1 ft. wide, but not containing any ore to value. No lode has been taken down in the rise west of the cross-cut since last reported, worth 101, per fathom. We have cut in north, in the 28, on Jope's lode, but finding nothing standing in that direction we again placed the men to drive in the former direction, consequently we have now a lode in the end worth \$1. per fathom. The winze sinking below this level is also worth \$1. per fathom. The present end in the 116 is leaving the clwan, and the lode again forming its regular course, containing good stones of ore. Marina's shaft is still in the clwan, with the lode spit up into branches. We have recently taken up the 114 from Gonamena, in which the lode is morth about 2 tons of ore per fathom.

WEST ST. IVES.—J. Evans, May 5: No. 1 lode, on the western side of this cross-course, is getting well defined, spotted with tin, and carrying a rich leader of copper ore from 4 to 6 in. wide; the ground is very congenial, and I believe after we get away from the influence of the cross-course the lode will improve.

WEST WHEAL TREMAYNE.—S. Roberts, May 5: There is a change in the nature of the ground in the engline-shaft, it being of a hard capel nature, but jointy, and requiring timber; the lode is about 10 in. wide, composed of dark capel, spar, and mundic, with occasional st

wide, composed of quartz, peach, mundic, and a little copper ore and tin, but not rich enough to value; I purpose to sink on its course 2 or 3 fathoms deeper before opening on it. The flat-rod shaft is being pushed on as fast as possible bevel end is just as it has been for the last 3 or 4 fathoms driving, worth role level end is just as it has been for the last 3 or 4 fathoms driving, worth role level end is just as it has been for the last 3 or 4 fathoms driving, worth role in the 10 has not been taken down for the last week.

WHEAL CREBOR.—John Gifford, May 5: In the 120 west, driving towards Kelly's shaft, the ground is favourable, and the men are making good progress. We shall cut into the lode in time to report for the general meeting. In the 120 cast we have not met with the lode east of the cross-cours south. In the 110 cast, west of the ross-cours with the role of the cross-cours as yet, but are 110 cast, west of the ross-cours with the role of the ross-cours and the role of the ross-cours and the role of the ross-cours with the role of the ross-cours with the role of the ross-cours with the role of the ross-cours and the role of the ross-cours with the role of the ross-cours with the role of the ross-cours with the role of the ross-cours and the role of the rol

engine-shaft, is worth 8t. per cubic fathom. We intend to sell a parcel of the on Saturday next.

WHEAL MARY ANN.—P. Clymo, J. Harris, J. Stevens, J. Skeat, May 7: Clymo's shaft is sunk 7 fathoms under the 230; the cross-cut in this level is extended 21 fathoms towards the lode. In the 220 north the lode is 2 ft. wide, worth 5t, per fathom; in the same level south it is 3 ft. wide, worth 15t, per fathom. In the 210 north the lode is 2 ft. wide, worth of stones of ore; in the same level south it is 3 ft. wide, worth 19t, per fathom. In the 200 north the lode is 1½ ft. wide, worth 18t, per fathom the 220 north the lode is 1½ ft. wide, worth 8t, per fathom. In the 190 north the lode is 2½ ft. wide, worth 18t, per fathom. In the 190 north the lode is 2½ ft. wide, worth 18t, per fathom. In the 180 north the lode is 2 ft. wide, worth 4t, per fathom. We are still diving the 180 south, but no improvement to notice. The stopes and pitches are producing much as usual.

are still driving the 180 south, but no improvement to notice. The stopes and pitches are producing much as usual.

[ADVERTISEMENTS.]

From Mr. Edward Cooke:—The decline in the standard of copper ore on April 23 and 30 had the effect of depressing the Mining Market. This decline in the face of a firm market for the manufactured article appears almost inexplicable to those who are not in the secrets of the smelters. The course of the copper trade for the future tends to better prices, owing to the gradual improvement in trade, and the serions falling off in the supply from Chili. Lead is certainly not subject to such fluctuations as that of copper and the mines. A lead mine that from various circumstances does not command the attention that its prospects would seem to justify is CALDIBECK FELLS. The last report from the manager is well descring of attentive perusal. The various points in operation are (according to the report) producing in the aggregate 7 tons 7 cwts. of lead per fathom, with indications of further discoveries of lead. All the mining authorities who have inspected this property have reported most favourably of it, and having some personal knowledge of it, I consider myself before the readers of the Journal. The risk of loss by a parchase of the shares is very small, if any, at their present price, and the liability limited to 6s, per share. The management of the mines is in the hands of a local board, of which Sir Robert Briscoe, Bart., is the Chairman. Whealt Trible and the live of which Sir Robert Briscoe, Bart., is the Chairman. Whealt Trible and the live of which Sir Robert Briscoe, Bart., is the Chairman. Whealt Trible and a good dividend mine, although it may be necessary to make another call before that position is attained.

In this statianed. The share are a few high great and the late of the continue of the share is equal to about 15 to do the share is equal to about 15 to about

of the next remittance being still greater. The shares at present stand at a slight discount, but ere long they will command a good premium.

From Messrs, WAED and JACKMAN: —We have often remarked that the weather has a great effect upon trade, and particularly upon speculative markets. Such has been the case since our last letter, for, notwithstanding the small fall in the standard for copper, a good business has been doing in most descriptions of mining shares, and in some cases at advanced prices, as will be seen by our closing quotations on the first page. At CHIVERTON MOOR, the lode in the 75 is improving in value, and some very pretty stuff has been broken from the end driving east at the trial shaft; this is north of the present mine, and alsoovery there would give us another entirely new mine, and which can be tried by flat-rods from the present engine. Some parties say West Chiverton lodes are north. WHEAL EMIN HENNETTA shares have been in great favour, and attained their previous price—401. This property is opening out with the promise of a great mine. The 60 east continues quite equal to the average—361, per fm., and the length of ore ground opened out in this level is everyday adding largely to the value of the mine. The 70 is also daily improving, and great results are anticipated in a couple or three fathoms more driving. At GREAT RETALLACK, the agents state that at no former period do they remember seeing the prospects of the mine better, and they believe that when the lodes are more fully developed they will yield increased returns, and also profitable results to the adventurers. At SOUTH HERODSFOOT good progress is being made; the engine-shat has been sunk 7 fathoms 2 feet 6 inches, making the total depth under the 86 fathom level 11 fathoms 2 feet 6 inches. The ground has improved, and continues most congenial for the production of lead. The agents feel confident that a productive lode will be met with in the 100 fathom level.

From Mr. J. B. REXNOLDS:—A long period of silence is often benefic

Inde will be met with in the 100 fathom level.

From Mr. J. B. REYNOLDS:—A long period of silence is often beneficial on the part of those who make it their business to attempt to be something like guides to investors. The voluminous evidence I have gathered concerning the mining properties to which I have directed the attention of my friends has been, as far as it can be, declaive in their favour. Old men, who forget the effect of advanced age, and remember the sunny days of childhood with peculiar satisfaction, are often found saying—"Ah! times are not like they used to be." And they are right, but not in the sense they would have us believe. With regard

to mining, however, times are really not as good as they used to be, for the commercial immorality of the age touched the proprietors during the disastrous years of 1844 and 1855, when me went wild with gain, and the baneful effects have not yet disappeared. We must not look, for some time to come at least have not yet disappeared. We must not look, for some time to come at least, have not yet disappeared. We must not look, for some time to come at least, have not yet disappeared. We must not look, for some time to come at least, have not yet disappeared. We must not look provided the comparison of the comparison of

COPPER ORE TRADE.—In last week's Journal sales of Chili bar copper of the trade.—It has been a south at sales of other and were effected at 77.1; and in the reports of Messrs. P. Campbell and Co. and Vivian and Co. the price of ores is quoted at 15s. 6d. per unit, equal to 77l. 10s. per ton of metal. At the last Swansea sale, Cuba and Cape ores realised 15s. 6d. per unit. This must be encouraging to the importers of foreign ores.

MINING NOTABILIA

[EXTRACTS FROM OUR CORRESPONDENCE.]

CHIVERTON VALLEY has been coming much into favour since th

CHIVERTON VALLEY has been coming much into ravour since the last meeting, which was held some six weeks ago, and the financial position of the concern fully justifies it. There was a credit balance of 11861, besides 12001, paid in advance of dues, and for premium for permanent roduction of dues from 1-15th to 1-18th. Some of the largest proprietors in West Chiverton are interested in the success of the mine.

NEW CLIFFORD.—The operations at this mine are now of deep interest to the shareholders, as within a short time five well-known lodes will be intersected by the north had south cross-cuts at the 50 fm. level. Any of these lodes cutting rich will well repay the shareholders for their patience and perseverage.

At East Wheal Grenville the lode in the shaft, sinking below the 110, maintains its productiveness, worth 4 tons of ore per fathom. The copper ore sold on Thursday realised 2371; and as the tin sale for this quarter is expected to be from 4 to 5 tons, in all probability the call at the ensuing meet ing will be less than the last.

is expected to be from 4 to 5 tons, in an production will be less than the last.

The new tin lode in the 120, at Wheal Grenville, continues worth 30l. per fathom, and there is a good bunch of tin both above and below the level. The cross-cut to prove this lode at the 110 has been driven 15 ft., and it is expected the lode will be intersected next week.

It is expected the lode will be intersected next week.

At Dolconth recent meeting, the salary of Captain J. Thomas, the manager, was fixed at 151. 15s. a month; Capt. Pearce the tin-dresser, was advanced to 104. 10s. All goods bought and sold to be done through the committee. Messrs. Hutchinson, Vincent, Harris, and Butlin, to be surgeons of the mine, and to attend all the families of the men, the men paying is, per month. Loud complaints were made of the coal supplied as being so much rubbish.

With regard to the question of the Coal supplied to the mines, it is manifest that great circumspection should be used by the merchants, the importers, as well as the mine agents and adventurers themselves. It cannot be too generally enforced that a low-priced article is frequently the dearest that can be obtained, yet lowness of price is too often the one thing almed at. When it is remembered what an important item coals are—at Clifford alone 2000. Odd was charged at the last two-monthly account—we have often wondered at the very inferior article too often imported, and this especially when it is remembered that the charge for freight, carriage, &c., is the same as for a good sound article type in the smallest consumption of coals, as we have often before urged.

Two years ago the mines could scarcely make 12s. or 13s. a ton of their arsenic. Now, however, in consequence of increased competition amongs the manufacturers, 21. 10s. and 21. is obtainable; and a few weeks since the Wheal Seton agents were offered 31. 11s. 6d. per ton. This, with 70 tons for sale, would make a tidy little credit in the accounts. It is doubtful, however, whether any profit is to be realised at these very high prices by the manufacturers. At East Caradon the cost has been considerably increased during the past quarter, as the water coming from the mine contains such a strong solution of copper that it destroyed the iron condensing work of the engines, and to remedy this new had to be cast, with brass linings.—West Briton.

MINERAL WEALTH OF AMERICA.—As the railways are pushed across the United States towards the Pacific, the Government geologists are sent to make surveys of the new territories, and already Dakotah, Colorado, and Nebrasks have been explored. Some of the early travellers reported the existence of what they called "stone coal" in the regions of the Upper Missouri, and the Surveyors have recently ascertained that the fields of lignite—to use the geological term—are of surprising extent and value, and the more valuable because adjacent to deposits of excellent ore, which yields 79 per cent. of metallic iron. In the State of Colorado alone there is an area of 50 square miles in which this ore abounds, and the surveyors report the existency of large beds in the regions traversed by the railways. No timber grows in those regions, hence the demand for other fuel must be severe; and taking into account that the lignite extends over an area of more than 10,000 square miles, it may be allowed that the Americans have some grounds for their anticipations, that at some future day the north-western States will become the centre of mining and manufacturing industry, far beyond that now existing in Pennsylvania.

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WITH OBSERVATIONS UPON THEM.

BY THOMAS SPARGO, STOCK AND SHAREDEALER,

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I beg to inform the mining interest that my work, under the above title, for 1866 and 1867 is now ready. It contains the following particulars—viz., the geological position, present prospects, names of purser, manager, and secretary, with statement of the annual returns of each mine during the last two years, and of total dividends paid to the present time. The work is lituated by a map of Cornwall and Devonshire; geological district maps, divided into eight sections, in which will be shown the boundary lines of each parish, height of hills cources of rivers, &c.; maps of St. Just, St. Ives, Marazion, Helston, Gwinear, Chiverton, Bodmin, Liskeard, Devon Great Consols, Ashburton, and Exmouth mining districts, showing boundary lines of each property, with the lodes, &c., traversing them.

traversing them.
It also contains transverse and longitudinal sections of Dolcoath Mine (kindly supplied by the late Captain Charles Thomas); section of workings in Botallack Mine (supplied by the manager, S. H. James, Esq.); longitudinal sections of workings upon the main lode in Great Wheal Yor and Tresavean Mines; geological map of the Fowey district (supplied by Major Davis, R.M.); instorical account of the Dovon Great Comsols, and of all the principal mines in the two

With this week's Journal a SUPPLEMENTAL SHEET is given, * With this week's Journal a SUPPLEMENTAL SHEET is given, which contains:—Lectures at the Royal School of Mines (remarks thereon by Mr. N. Ennor)—The Shropshire Coal Fields, No. IV., by Mr. John Randall, F.G.S.—On Boiler Explosions, No. II., by "M. E."—Nitro-Glycerine and Dynamite, by Capt. W. Hoskin—The New Blasting Agents—Lead Smelting—Preparation of Magnesia employed as a Refractory Material, by Mr. C. H. Dowling—Improvement of Iron and Puddled Steel by an Alloy with Wolfram, by Messrs, A. Keiffenheim and Co.—The Darien Canal, No. XIX., by Dr. E. Cullen—Mineral Resources of La Plata States—Mining in Mexico—Mining on the Rhine, No. 1—Our Commercial Position: Trading Companies as a Medium of Investment—The Progress of Mining as a Science and Source of Commercial Wealth—The New Quebrada Company—St. John del Rey Gold Mining Company, &c.

The Mining Market; Phices of Metals, Ores, &c.

METAL MARKET-LONDON, MAY 8, 1868.

	COPPER & s. d. & s. d.	Ron. Per ton.	
1	Tubes 0 0 11½ 1 0	Refined metal, ditto 4 0 0-5 0	
I	BRASS. Per lb.	Bars, common ditto 5 10 0- 5 15	•
	Sheetsper lb. 9d10d.	Do. mrch. Tyneor Tees 6 10 0 Do., railway, in Wales 5 10 0- 5 15	1
١	Wire , 8½d9½d. Tubes , 10½d11d.	Do., Swed. in London. 10 0 0-10 5	-
I		To arrive	-
1	Yellow Metal Sheath.p. lb. 71/2d8d.	Pig, No. 1, in Clyde 2 12 9- 2 16	-
١	Sheets ,, 7 d7 4d.	Do. f.o.b. Tyne or Tees 2 9 6	
ı	SPELTER. Per ton.	Do. Nos. 3,4,f.o.b. do. 2 6 6-2 7 Railway chairs 5 10 0-5 15	1
ı	Foreign on the spot. £20 5 0-20 7 6		1
۱	,, to arrive 20 5 0-20 7 6	,, -1	1
۱	ZINC.	Indian Charcoal Pigs, in London p. ton 7 0 0-7 10	
ı	In sheets£26 0 0		
١	TIN.	STEEL. Per ton.	
١	English blocks 98 0 0	Swed., in kegs(rolled)14 50	
١	Do., bars (in barrels) 99 0 0	,, (hammered) 14 15 0-15 0	(
	Do., refined101 0 0	Ditto, in faggots16 0 0	
۱	Banca 96 0 0	English, spring17 0 0-23 0	(
	Straits £93 0 0-93 10 0	QUICKSILVER (p. bottle) 6 17 0	
۱	TIN-PLATES.* Per box.	LEAD. Per ton.	
I	fC Charcoal, 1st qua. 1 6 0- 1 10 0		
١	IX Ditto, 1st quality 1 12 0- 1 16 0	Ditto, LB 19 12 6	
I	IC Ditto, 2d quality 1 4 0-1 7 0	Ditto, WB21 5 0	
I	IX Ditto, 2d quality 1 10 0- 1 13 0 IC Coke 1 2 6- 1 3 6	Ditto, sheet20 5 0	
I	IX Ditto 1 8 6-1 9 6	Ditto, red lead20 15 0 Ditto, white27 0 0-30 0	(
۱	Canada plates, p.ton 13 10 0-	Ditto, patent shot22 10 0-22 15	ì
۱	Ditto, at works 12 10 0	Spanish18 15 0-19 0	i
I		to 1s. 6d. per box less.	•
I		- Total Per Non Tough	

REMARKS .- During the past week the Metal Market has still continued to develope the improvement which had previously commenced; and, though slowly, business appears steadily to be advancing onwards towards a more desirable condition; and as confidence becomes more thorougnly established, it will, no doubt, be seen that the improvement becomes much more rapid. The Money Market is also becoming decidedly firmer, and it was thought by no means improbable that the directors of the Bank of England would have raised the official minimum at their meeting on Thursday; they did not be averaged to the control of the same that the directors of the same that the directors of the same that the directors of the same that the also becoming decidedly firmer, and it was thought by no means improbable that the directors of the Bank of England would have raised the official minimum at their meeting on Thursday; they did not, however, do so, and the rate still remains at 2 per cent; but as there seems every likelihood that the money market will continue its present improved appearance, an advance in the Bank rate of discount is pretty certain to take place ere long, especially as it appears that in other quarters higher rates are already asked; and it must be expected that when there is a greater demand for money, caused by increased commercial business, the present low rate of interest cannot any longer be maintained. The recent advices from India have not been quite so encouraging as formerly, and the orders received have rather fallen off; still it is to be hoped that this will only be temporary, and that we shall soon receive more favourable intelligence, as the metal market greatly depends upon the orders from India, and is sure to be affected in one way or other by the state of business there. The prices of metals generally have not undergone much change during the week, though in some instances an increased tendency to firmness is perceptible; and it may be expected that this will become much more extended as a nearer approach is made to an active and vigorous condition of the metal trade. Copper.—The market for this metal still shows an upward tendency, and considerable sales of Wallaroo have taken place early in the week at 82½. 15s. to 83½ cash, and afterwards at 83½ 10s. cash: 200 tons Chill bars have been sold at Liverpool, for arrival, at 77½ 10s.

IRON.—In Staffordshire a few of the leading houses are receiving small orders from the home merchants, but, as a rule, the demand is dull, and while prices are very low, tenders for the district are in a large number of cases underbid in the market. A good many contracts are said to be taken in Belgium, which usually come to South Staffordshire. If all the puddlers were at work th

LEAD .- The demand still continues only moderate, and prices are

not quite so firm as they were.

Trn.—The market for Straits has not been very active during the week, and prices have somewhat fluctuated; at the commencement of the week a parcel was sold at 92%. 10s. cash, but has since rather improved, and business has been done at 93% cash, and afterwards at 93% los. cash, at which itstill remains. Banca may now be quoted

at 957. English is firm at smelters' prices.

SPELTER remains very quiet, and little or no business has been done during the week. The stock in London on April 30 was 1130 tons, being a decrease of 42 tons only during the month.

TIN-PLATES.—The demand is less active, and prices are somewhat

STEEL and QUICKSILVER are without change.

Business in the MINING SHARE MARKET this week has been rather more active, but without any material alteration in prices generally Among those which have advanced are Prince of Wales, Emily Henrietta, East Caradon, Chontales, Chiverton Moor, Wheal Seton, and Chiverton Valley. West Chiverton shares have been rather weaker, and transactions have taken place in Marke Valley, North Crofty, Wheal Grenville, East Grenville, Clifford Amalgamated, Wheal Mary Wheal Grenville, East Grenville, Clifford Amalgamated, Wheal Mary Ann, North Laxey, and a few others. The standard for copper ore has again declined 11., which makes a fall in three weeks of 71. 5s., and in the face, too, of increased firmness in the copper trade, and decreasing shipments from Chili! West Chiverton shares have been flatter, and leave off at 64 to 65; the decline was owing to an accident to the inside boiler, which exploded on the 1st May; fortunately no lives were lost, though one man was seriously injured. The mine was in full operation again by Monday morning, and the damage, confined to the surface, will not exceed 3001.; the mines continue to look well. Carn Brea, 17 to 19; Clifford Amalgamated, 5\frac{1}{2}\$ to 5\frac{1}{2}\$. Prince of Wales shares have been firmer; soon after our last they rose to 54s., and leave off 50s, 6d, to 52s, 6d.; ore appears to be coming in

both east and west in the 65, and the 136 tons of ore sampled is very

both east and west in the 65, and the 136 tons of ore sampled is very rich, and estimated to produce 1100l. Cook's Kitchen, 10 to 11; East Caradon shares have advanced to 4½, 5; East Carn Brea, 1 to 1½; East Lovell, 8½ to 8½; East Russell, 12s. 6d. to 17s. 6d.; East Wheal Grenville, 35s. to 37s.; Frontino and Bolivia, 10s. to 12s.

Chiverton Moor shares have advanced to 6½, 6½; the 75 west has very much improved, producing good stones of ore, and the whole of the lode saving work. Frank Mills, 1 to 1½; Great Laxey, 16½ to 17½; Great Retallack, 2 to 2½; Great Wheal Vor, 16½ to 17½; Herodsfoot, 39 to 41, and mine looking well; Marke Valley, 6½ to 7; North Crofty, 2½ to 2½; Wheal Emily Henrietta, 37½ to 42½; South Frances, 18 to 20. At the meeting, held on Monday, the accounts showed a profit on the two months' working of 109l. 4s. 2d., and a balance in hand of 810l. 7s. 7d. The costs had been increased by the erection of 16 additional heads of stamps, which will be at work in a few days, and increased returns of tin made. The various points of operation in the mine are worth in the aggregate 55l. per fathom. North Treskerby, 17s. 6d. to 20s.; Providence Mines, 27½ to 2½. Wheal Buller, 8 to 10. At the meeting the accounts showed a balance against the company of 714l. 17s. 3d., and a call of 1l. 10s. per share was made. The tin sold during the quarter realised 1566l. 14s. 8d; copper, 166l. 0s. 1d. The bills have been heavier this quarter, and the machinery has had to be put into a more efficient state of repair. The agents hope for the ensuing quarter about the same quantity of tin and copper. West Prince of Wales, 9s. to 11s.; the lode has been cut through, and is 6 feet wide, of a very promising character, and it only requires, the agent thinks, to get through the cap of red killas (peculiar to the district) into the blue to find the lode very productive. South Caradon, 395 to 405; South Crofty, 15 to 17; Tincroft, 14 to 15; West Caradon, 5 to 5½; West Seton, 205 to 10; West Tolgus, 45 to 48; Wheal Chiverton, 2 t

the mines into a profitable state, we gave, the week before last, a statement of the accounts, obtained from official sources, and added that should any further capital be required a proposition would prostatement of the accounts, obtained from official sources, and added that should any further capital be required a proposition would probably emanate from the directors, whereby the money could be raised in a way, we thought, to give general satisfaction; and as a meeting has since been held on the subject, we may, perhaps, without impropriety, refer more particularly to the plan proposed. The company is at present in 45,000 shares, all representing 52 paid up; but of these, 15,000 are "royalty shares," given towards the purchase of the mines, as nominally 52 paid, but not to partake of dividends until the 30,000 ordinary shares receive 15 per cent. It is proposed, therefore, as the directors, we presume, have power to deal with these shares on behalf of the company, to admit them upon an equality with the 30,000 shares on payment of 12. 10s. per share, by which means, supposing all the royalty holders to fall in with the plan, a sum of 22,5002, would be raised. The advantages of the plan are these—the royalty holders, by a payment of 12. 10s, per share, would make their shares (now unsaleable) marketable, and of as much value as the others. To the whole company it would give more than ample capital for all requirements, ensure early profits, and take an incubus from the concern which for months has been weighing it down.

Wheal Mary Ann, 21½ to 22½; Wheal Seton shares have advanced to 80½, 82½; Wheal Trelawny, 8 to 9. Wheal Uny, 2 to 2½; the lode cut in the 120 winze is worth for tin 35% to 40%, per fathom. In the 130 it is worth 25%, per fathom, and the 140 east will, in a few fathoms, come under this run of valuable ground. The mine is now making profits. Gawton, 2½ to 2½; at the meeting, on Thursday, the accounts showed a profit of 186%. The tutwork points had considerably imshowed a profit of 186%. The Tutwork points had considerably imshowed a profit of 186%.

profits. Gawton, 24 to 2); at the meeting, on Thursday, the accounts showed a profit of 1862. The tutwork points had considerably improved. The 70 west is valued at 4 tons of ore per fathom, the 60 east from 4 to 5 tons, and the winze sinking below the 60 fully 6 tons of copper ore per fathom.

of copper ore per fathom.

The Market for Mine Shares on the Stock Exchange during the week has been rather dull, and prices generally have declined. Don Pedro shares, after touching 2½ prem. buyers, declined to 1½, 2. St. John del Rey shares were firm in the early part of the week, but subsequently became flat, and close 18½ to 19½. Chontales shares have fluctuated between 2½ and 3, closing 2½ to 2½. Anglo-Brazilian are steady at 3-16ths to 5-16ths prem.; Anglo-Italian, par to ½ prem.; Port Phillip, 1½ to 1½; Rossa Grande, par to ½ prem., and enquired for. Yudanamutana shares are rather less firm. In British Mines there has been a fair business doing. Prince of Wales shares rose to 52s. 6d. buyers, and close 50s. to 52s. West Chiverton shares were rather more offered, owing to a boiler explosion, which has been remedied at a very trifling cost, but subsequently rallied to 6½, 65½, and firm at quotations; the mine is looking better than ever. Chiverton shares deserve attention at the reduced quotation of 2½ to 2½. Chiverton Moors shares are steady at 6½ to 6½. Chiverton Valley, 4½ to 5; the prospects are very good. Great Wheal Vor, 15½ to 16½; Great Laxey, 17 to 17½. Glan Alun, 7s. to 8s.; the lode in one of the sumps that will be available when the water-wheel goes to work is worth 6 tons per fathom, and the side lode will be cut in about a month's time. The channel of ground is very favourable driving towards the lode, and large stones of ore being met with. Minera, 165 to 175.

At Camborne Ticketing, on Thursday, 2063 tons of ore were sold.

At Camborne Ticketing, on Thursday, 2063 tons of ore were sold, realising 9927t. 2s. 6d. The particulars of the sale were:—Average standard, 110t. 13s.; average produce, 6½; average price per ton, 4t. 16s.; quantity of fine copper, 14t tons. The following are the particulars of the sales during the past month:—Date. Tons. Standard. Produce. Per ton. Per unit. Ore copper. Apr. 2. 3151 £118 60 ... 646 ... £48 86 ... 14s. 7d. ... £78 0 0 ... 9... 1827 ... 122 160 ... 534 4 7 0 ... 15 1 ... 75 13 0 ... 27 2... 4004 ... 117 12 0 ... 646 ... 44 16 6 ... 15 0 ... 74 19 6 ... 30 ... 1726 ... 109 180 ... 744 ... 5 5 0 ... 14 5 ... 72 1 6 May 7... 2063 ... 110 13 0 ... 656 ... 4 16 0 ... 14 1 ... 70 8 0 Compared with last week's sale, the decline has been in the standard 1t. and in the price per ton of ore about 1s. 6d. Compared with

11., and in the price per ton of ore about 1s. 6d. Compared with the corresponding sale of last month, the decline has been in the standard 7t. 5s., and in the price per ton of ore about 9s. 6d.

At the Swansea Ticketing, on Tuesday, 2526 tons of ore were sold, At the Swansea Ticketing, on Tuesday, 2026 tons of ore were sold, realising 30,154*l*. 3s. The particulars of the sale were—Average standard for 9 per cent, produce, 99*l*. 3s. 6d.; average produce, 15*l*₂; average price per ton, 11*l*. 10s. 9d.; quantity of fine copper, 391 tons 11 cwts. The following are the particulars of the sales during the

11 cwts. The following are the particulars of the sales during the past month:—
Dato. Tons. Standard. Produce. Price per ton. Per unit. Ore copper. April 14. 1957 ... \$29 10 0 ... 17 ... \$213 3 11 ... 15s. 6d... £27 10 0 May 5. 2526 ... 99 3 6 ... 15½ ... 11 10 9 ... 15 5 ... 77 0 0 Compared with the last sale, the standard has declined 6s. 6d., which does not materially affect the price per ton of ore. On May 26 there will be offered for sale 3238 tons of ore, principally from the Cape and Ireland.

IRISH MINE SHARE MARKET .- This was favoured with considerable animation during the week, but leaves off rather flat. Connorrees advanced 3d, per share, having been in request at 4s. 3d., ofnorrees advanced 3d. per share, having been in request at 4s. 3d., offering fair inducement for speculative investment, although holders of these shares are expected to make a reasonable contribution towards re-arranging the affairs of the company and resuming the promising working of the mines. Mining Company of Ireland shares (7l. paid) made a strong upward movement to 20l., thus realising an advance of 5s. per share on last week's quotation, but an increase of sellers has brought them again to 19l. 15s., leaving off buyers, sellers at 19l. 17s. 6d. Wicklow Coppers (2l. 10s.) suffered for one or two days a drop of 2s. 6d. per share, but they have gone up again to the previous price of 14l. 10s, per share. The Connorree Mining Company held an adjourned meeting on Saturday last, the 2d inst. Mr. Flavelle addressed the meeting, in the unavoidable absence of Mr. Flavelle addressed the meeting, in the unavoidable absence of Mr. McCready, the Chairman of the committee, and stated that the shareholders' subscriptions lodged in the Royal Bank amounted to 16961. 15s., and that 7001. due to some of the directors had been engaged to be taken out in debentures, bringing up the total sum subscribed to 2396l. 15s., or, including further promises from shareholders, to 3000l.; that about 4000l. additional was wanted to meet was in full operation again by Monday morning, and the damage, confined to the surface, will not exceed 300l.; the mines continue to look well. Carn Brea, 17 to 19; Clifford Amalgamated, 5\frac{3}{2}, to 5\frac{3}{2}.

Prince of Wales shares have been firmer; soon after our last they rose to 54s., and leave off 50s, 6d, to 52s, 6d,; ore appears to be coming in the said, were progressing satisfactorily. Mr. Greer, the official

and e sity for will b Febru tions The fixed fi

The divide suant The evening 153,300 lion 's shown sits' c 626,752 1,154,62 mains a less car at all r Ont during

Were :-

liquidator, stated that since his appointment the working expenses of the mine had amounted to 4961. 12s., but the greater portion of this had been applied to pressing claims. He acknowledged the liberality of the Dublin, Wicklow, and Wexford Railway Company, in affording him a free pass to and from the mines, thus setting a good example to other railway companies over whose ways officials have to travel to works which furnish goods for transit, or are likely to do so. The meeting adjourned to this day.

A fortnight ago we noticed the increased life that had been thrown into mining in the Redruth district by the fine prospects opening out at WHEAL EMILY HENRIETTA. When we wrote the shares were about 30%, but before our observations were in print they had jumped about 30t., but before our observations were in print they had jumped to above 40t., on water or stones of ore being cut in the 70 sooner than had been anticipated. Immediately afterwards, on a rumour (which has turned out to be wholly unfounded) of a falling off in the 60, the shares dropped back to 32t., since which, however, they have rallied to their old price, and it is thought are likely soon to advance very much higher. We have almost to go back to the days of East Caradon since any new mine has shown such prospects, which is now, becoming to the district and indeed to Carriely mining general. is very cheering to the district, and, indeed, to Cornish mining generally, as showing the resources, in virgin ground, of even the oldest of the mining districts of the county.

The letters of allotment of the SAO VICENTE MINING COMPANY (Limited) will be issued on Monday, provided they are received from the Stamp Office by that date. -

At the Minera Mining Company meeting, on May 1, the directors declared a dividend of 90001. (54. per share) out of the profits of the three months' working, up to March 31. This mine has already paid 2331. 13s. in dividends on each 251. share.

At the Bronfloyd Mine (quarterly) meeting, on April 30 (Mr. Henry At the Breahoyu Mine (quarterly) meeting, on April 30 (Mr. Henry Huton in the chair), the accounts showed a credit balance (cash and ore bills) of 13051.5s. 4d. A dividend of 3001. (ss. per share) was declared. The report stated that the mine was in first-rate working order and that the reserves were good. It was agreed that the work recommended in the report should be at once put in hand.

At the Gawton Copper Mine meeting, on Thursday (Mr. Chiverton

At the Gaward Copper lattic meeting, on Thursday (Mr. Chiverton in the chair), the accounts showed a credit balance of 18sl. 8s. 11d. The committee of management were re-elected. Details in another column.

At Wheal Buller meeting, on Tuesday (Mr. Henry Milford in the chair), the accounts for the three months ending March showed a debit balance of 71sl. 17s. 3d. A call of 1l. 10s. per share was made. It was resolved "That in consequence of the Il health of Mr. Francis Pryor, his services as manager of this mine be respectfully dispensed with."

At Wheal Buller meeting, on Tuesday (Mr. Henry Milford in the chair), the accounts for the three months ending March showed a debit balance of 7144. 178, 3d. A call of 14. 19s, per share was made. It was resolved "That in consequence of the 111 health of Mr. Francis Pryor, his services as manager of this mine be respectfully dispensed with."

At Frank Mills Mine meeting, on Tuesday (Mr. Wm. Porter in the chair), the committee reported that since the meeting on Feb. 13 the returns have the chair, the committee reported that since the meeting on Feb. 13 the returns have the chair, the committee reported that since the meeting on Feb. 13 the returns have that it is now reduced to 3321, 5s. 14d., and the committee anticipate being able by the next meeting to considerably reduce this amount. Capts, J. P. Nicholis, J. Cornish, and F. Cornish, say.—"In tribute department now consists of nine pitches, working by 22 men, at tributes varying from 24, to 31, per ton. This department also is yielding an average quantity of lead ore, with very fair prospects of continuates. The mine throughout is in general good repair, and all the chairy, the accounts for February and March showed a credit balance of siel, 7s, 7d. The profit on the two months' working was 1094. 4s. 2d. Capts. Pascoc and Prisk reported upon the various points of operation. With reference to the new stamps, 16 heads are complete, and the machinery on the dressing-floors is in a forward state, and in course of another week they hope it will be at work, when 16 additional heads will be added, and their returns of the incourse of another week they hope it will be at work, when 16 additional heads will be added, and their returns of the incourse of another week they hope to will be a twork, when 16 additional heads will be added, and their returns of the incourse of another week they hope to will be a twork, when 16 additional heads will be added, and their returns of the incourse of the count of the country of the proving and the cost charged on account thereof

At the United Mexican Mining Company (half-yearly) meeting, on Wednesday (Mr. Charles Morris in the chair), the report of the directors and ba-lance-sheet were received and adopted. A call of 2s. 6d. per share was made. Details in another column.

At the Companhia de Mineração da Azambujeira meeting, held at Lisbon on April 17 (Senhor F. Pereira de Magalhaes in the chair), the report of the directors, having been previously circulated amongst the shareholders, was taken as read. The directors congratulated the shareholders upon having passed through the first years of their existence as a company, and with them the risks and uncertainties inseparable from mining enterprise, and that they have now reached an epoch in which, without the necessity of further risks and further pecuniary sacrifices, they may hope for profits proportioned to their energy and perseverance, and to the amount of capital effectively disbursed. The prosecution of the works give ample evidence of their riches, and demonstrate the great value of the two regions into which they naturally divide themselves—the pyrites district, or Humbold, and the sulpbur district, or Do Valle, and that the latter is even much more extensive and productive than the first. They have commenced already the exportation of mineral, and hope to be able to continue to make regular shipments. The quantity already exported has been about 90 tons, in two shipments; for the first 211, 10s. per ton was realised for the first quality ore, and 181, for the second quality. The result of the sale of the second shipment was not know at the date of the report. The mine is already paying cost, and it is estimated that not more than 75 or 80 per cent. of the nominal capital will have to be called up in all. There is every probability that the extraction and exportation of the mineral will goon increasing, so that, without the necessity for further disbursements on the part of the shareholders, the enterprise will be able to give those profits which have been promised. In the middle of February the company was indebted about 10 contos of reis. The recommendations of the fiscal commission were put to the vote, and unanimously approved. The Scottish Australian Mining Company half-yearly meeting is fixed for Friday, when a di At the Companhia de Mineração da Azambujeira meeting, held at

The Scottish Australian Mining Company half-yearly meeting is fixed for Friday, when a dividend is to be declared. The meeting will then be made special, and a resolution proposed to increase the company's capital. The directors of the Kapunda Mining Company have declared a dividend of 6d. per share (free of income tax), payable on and after May 19. Pursuant to the Articles of Association, the general meeting will be held in June.

suant to the Articles of Association, the general meeting will be held in June.

The Bank of England return for the week ending on Wednesday evening showed in the Issue Department a decrease in the "notes issued" of 153,3051, which is represented by a corresponding decrease in the "coin and builtion" on the other side of the account. In the Banking Department there is shown an increase in the "public deposits" of 328,2181, in the "other deposits" of 228,2181, in the "other deposits" of 292,1824, and in the "seven day and other bills" of 68821. : together, 626,7521, and a decrease in the "erst" of 5791.—620,9551. Deducting this from 1,154,6291., the increase in the "other securities" on the asset side, there remains a decrease in the total reserve of 533,6741. The heavy changes are doubtless caused by the ordinary monthly settlements, and do not present anything at all remarkable.

On the Stock Exchange the following prices were officially recorded On the Stock Exchange the following prices were officially recorded during the week in British Mining Shares:—Devon Great Consols, 449; Marke Valley, 6½; East Caradon, 44, 4‡; West Chiverton, 64½; Wheal Mary Ann, 22½, 22½.—In Colonial Mining Shares the prices were:—Vancouver, 4, 8‡, 4½; Cape Copper, 11½, 11, 11‡; Yudana—

mutana, 14, 1 15-16ths; Port Phillip, 11, 1 9-16ths; Worthing, 7-16ths. —In Foreign Mining Shares the prices were:—Chontales, $2\frac{9}{8}$, $2\frac{1}{8}$, $2\frac{1}{8}$, $2\frac{1}{8}$, Rossa Grande, $\frac{1}{8}$, 1-16th, $\frac{1}{8}$ prem.; St. John del Rey, 19 $\frac{1}{8}$, 20 $\frac{1}{8}$, 19 $\frac{1}{8}$, 19 $\frac{1}{8}$, 19 $\frac{1}{8}$, 19 $\frac{1}{8}$, 10 $\frac{1}{8}$, 10 $\frac{1}{8}$, 10 $\frac{1}{8}$, 10 $\frac{1}{8}$, 11 $\frac{1}{8}$, 11

COAL MARKET.—The fresh arrivals this week number 136 ships. COAL MARKET.—The fresh arrivals this week number 136 ships. The market for household coals has been very heavy, and we quote a reduction in prices of 1s. per ton, which had the effect of stimulating the demand, and but few cargoes remain over. Hartley coals have remained steady, and without change in value. Hetton Wallsend, 17s.6d.; Haswell Wallsend, 17s.; Kelloe Wallsend, 15s.; South Hartlepool Wallsend, 15s.; Eden Main, 15s.; Hetton Lyon's Wallsend, 14s.6d.; Braddyll's Wallsend, 15s. 6d. Unsold, 13 cargoes; 20 ships of seen

THE TIN TRADE.—Messrs. Von Dadelszen and North (May 2) write
—The quantity of tin here and in Holland on April 30 was as follows, compared
with the three preceding years:—

1868. 1867. 1866. 1865.

| 1868 | 1867 | 1866 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 | 1865 |

Total tons 7488 9377 10,480 9907
The quantity of tin now affoat for England is 1592 tons, against 962 tons last year; to the Continent, 66 tons; and to America, 601 tons. We estimate the present stock in warehouse here at 1699 tons.

THE COPPER TRADE. - Messrs. Vivian, Younger, and Bond (May 8) THE COPPER TRADE.—Messrs. Vivian, Younger, and Bond (May 8) write—Transactions have taken place in Chili produce to a fair extent, and a rather higher prices than those reported last week. For two cargoes of regulus (together 1090 tons) 15s. 10½d, per unit has been paid by smelters. About 550 tons of bars have been sold, at prices varying from 77t. spot, to 77t. 5s. and 77t. 10s. for favourite brands to arrive: 220 tons of refined ingots have brought 550. The Liverpool market closes very firm, with little obtainable at the above prices. It is understood that the charters of Chili produce for the second half of March will amount to only 1100 tons of fine copper, the news having arrived, via New York, in anticipation of the regular mail, due in the middle of this month. In fine foreign copper a fair business has been done, 250 tons of Wallaroo having sold at 82t. 10s. up to 83t. 10s. cash, and a small parcel of Burra at 84t. In English raw copper there is not a very active business, but the general tone of the market is very healthy.

BISMUTH ORE.—A QUANTITY, from AUSTRALIA, FOR SALE, BY PUBLIC TENDER, early in June next.

For particulars, apply to—
JAMES AND SHAKSPEARE, 10, Austinfriars, London.

GRANITE QUARRIES.—For particulars concerning an EXCELLENT SITE for GRANITE QUARRIES, immediately adjoining a Rallway, apply to—
H. J. MOULE, Gatchouse, Stewartry of Kirkcudbright.

ORREL COAL COLLIERY, WIGAN.—
WANTED, a PARTNER, to TAKE the PLACE of ONE OWNING A
SIXTH PART, who is retiring from business.
Apply to ASTRUP CARISS, Accountant, Cook-street, Liverpool.

TO COLLIERY PROPRIETORS.—An experienced Traveller, now resident in Bristol, desires an ENGAGEMENT as AGENT or MANAGER. The Advertiser has represented a colliery, and has a CONNEXION AMONGST LARGE CONSUMERS AND BUYERS OF COAL. The highest testimonials and references can be given.

Address, "H.," 12, Somerset-square, Bristol.

MONEY. — A Gentleman would ASSIST with MONEY in CARRYING OUT any thoroughly FEASIBLE SCHEME, with an equitable arrangement as to profits, or would INVEST IN MINING PROPERTY. Address, with full particulars, in strictest confidence, to "K.," care of Mr. Bailey, Stationer, Streatham-place, Brixton-hill, S.W.

WANTED, FOUR THOUSAND POUNDS, upon SECURITY of an EXCELLENT COLONIAL COLLIERY. Apply, with real name and address, to J. H. Howard, Esq., solicitor, particular, pa

WANTED, by a Gentleman who has had large experience in the IRON and COAL TRADES, a SITUATION as SECRETARY or CASHIER. Unexceptionable references and security.

Address, "Iron Trade," Post Office, Stafford.

WANTED TO PURCHASE, SHARES in the LUCY PHILLIPS GOLD AND SILVER MINING COMPANY (LIMITED), Principals only requested to apply, by letter, stating lowest price, to A. R. M., Office of the MINING JOURNAL, 26, Fleet-street, London, E. .

MINING and ENGINEERING SURVEYOR, of much experience, is OPEN TO AN ENGAGEMENT. Highest references of Address, "M. S.," Book Stall, Railway Station, Chesterfield.

FOR SALE, the RICH MINES at NŒSEKIIL, near ARENDAL in NORWAY, renowned for their good IRON ORE. Easy necess to ship ping port.

For price and conditions, apply to the BRITISH VICE-CONSUL, at Skiler Norway.

RON ORE, -FOR SALE, 4000 to 5000 tons IRON ORE, from the NŒSEKHL MINE, near ARENDAL, in NORWAY.
For particulars, please apply to JOHAN VAUVERT, Agent, Skien, Norway.

TO BE SOLD,—A FIRST-CLASS NEW 14-horse power PORTABLE STEAM-ENGINE, with all recent improvements. Several GOOD SECOND-HAND PORTABLES TO BE SOLD, CHEAP.

Apply to T. W. BARROWS, Engineer, Banbury.

ENGINES FOR ABSOLUTE SALE.—
A 36 in. cylinder ROTARY ENGINE, 8 ft. stroke, equal beam, 10 ton flywheel, fly-wheel shaft, with 10 ton boiler; 18 in. cylinder WINDING ENGINE,
ton boiler, with fly-wheel and whim cage. The engines must be sold/and a
ow price will be accepted. ow price will be accepted. For further particulars, apply to Mr. Thomas James, Engineer, St. Agnes,

ORNISH COPPER MINING and the PRE-LIMINARY ASSIGNMENT to, of a VALUABLE MINING PROPERTY, situate in one of the finest districts, and surrounded by several of the most profitable undertakings of the day. The shares are 20 in number, and issued at £50 each. Four or five bona fide shareholders required for not exceeding two shares each.

two shares each.

Applications, with a remittance of the purchase money, to be made to, which will be returned in full if the applicant should not be accepted by Messis.

HARRISON and Co., Crown-chambers, Threadneedle-street, London, E.C.

THE WYE LEAD MINING COMPANY (LIMITED). Prospectuses of this very valuable lead mine can be obtained from J. H. Munchison, Esq., 8. Austinfriars, London, E.C. There are only 400 shares of \$20 each, payable by £5 instalments, and immediate application should be made for the same.

while COPPER and TIN have been very DEPRESSED in PRICE during several years past, and, indeed, are subject to frequent fluctuations, LieAD has been comparatively STEADY, and is generally so. In proof of this, it may be stated that white in 1862 only 13 public lead mining companies divided a sum of £70,590, last year (1867) 18 divided £127,280. In the public Share List there appear 47 dividend mines, of which 20 produce lead, and show the following

list, that are making good profits. 8, Austinfriars, London, E.C

THE SAO VICENTE MINING COMPANY (LIMITED), BRAZIL.

Capital £50,000, in 10,000 shares of £5 each. HENRY HAYMEN, CHAIRMAN—Chairman of the Don Pedro North del Rey Gold Mining Company (Limited).

CONSULTING ENGINEER.
CAPT. THOMAS TRELOAR, Consulting Engineer of the Don Pedro North del
Rey Gold Mining Company.

THE IMPERIAL BANK (LIMITED), 6, Lothbury, London.

SOLICITORS.

MCSSTS. WILKINS, BLYTH, and MARSLAND, 10, St. Swithin's-lane, E.C. AGENTS.
Liverpool—Messrs. J. BRAMLEY MOORE and Co.
Brazil—Messrs. JOHN MOORE and Co.

BROKER.

J. H. GOULDING, Esq., 3, Warnford-court, Throgmorton-street, London, E.C.

Mr. FREDERICK W. SMITH. TEMPORARY OFFICES,-12, BISHOPSGATE STREET WITHIN, E.C.

The LETTERS OF ALLOTMENT will be ISSUED on MONDAY next, the 11th inst., provided they are received from the Stamp Office in time.

BIRMINGHAM FINANCIAL COMPANY (LIMITED),

OFFICES,—WATERLOO STREET, BIRMINGHAM.
CAPITAL,—HALF A MILLION,

Reserve fund, £12,000,

ADVANCES made upon approved real and other securities. DEFERRED PAYMENTS on Wagon Leases and other contracts purchased r advances made thereon.

HENRY ALLBUTT, Secretary. AMERICAN MINES.

MR. R. P. ROTHWELL, Mining Engineer and Metallurgist, M. A. T. ROTHWELL, MINING ENGINEER AND MEETINGS, OFFICE, WILKES BARRE, PENNSYLVANIA, U.S., Having a LARGE EXPERIENCE IN EUROPEAN and AMERICAN MINES, can FURNISH RELIABLE INFORMATION on the VALUE of MINERAL PROPERTY in any part of the UNITED STATES or the dominion of CANADA.

ROSECLIFF AND TOLCARNE MINING COMPANY.—
FOURTEEN SHARES FOR SALE. Price, £7.
Address, "Roseliff and Tolcarne," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

		LEAD (RE	s.		
	Mines.	Tons.	Am	nour	ıt.	Purchavers.
May 1-M	Inera	109	£11	16	6	 Walker, Parker, & Co.
menu	ditto	108	. 11	17	0	 Sims, Willyams, & Co.
-	ditto	71	. 12	3	0	 Panther Lead Co.
	ditto					
mout	ditto	90	. 12	5	6	 Adam Eyton.
—G	reat Laxey	100	22	15	6	 Stock and Co.
2-1	de of Man Mining	Co. 100	24	11	6	 Burry Port Company.
B	rynpostig	35	. 11	6	6	 Adam Eyton.
6-V	an	100	. 12	16	0	 Burry Port Company.
- (litto	100	. 12	12	6	 Walker, Parker, & Co.

			B	LEN	DE				
Date.	Mines.		Tor	18. 1	Price	per	to	m.	Purchasers.
April 14-	-Great La	xey	10:		£ 3	17	0		Bagillt Smelting Co.
May 1-1	Ainera		110	0	. 4	7	6		H. Southern.
-	ditto		44		4	0	6		ditto
-	ditto		44		3	6	0		Bagillt Smelting Co.
_	ditto		1		3				ditto
—G	reat Lax	ey	200		3	17	0		8. Kenrick.
5C	oetia Lly	S	128		4	0	0		Bagilt Smelting Co.
	faes-yr-E	rwddn .	48		63	18	0		Vivian and Sons

BLACK TIN.

Samul.			ORES.	16			
Maria and Artifacture and a state of the latest and		-	sold at Swans				
Mines. Tons. Pro		rice.	Mines. 7	ons. P	roduce.	Pr	ice.
Knockmahon120	121a £9	6 0	Gwalla	67	2416 £	118	7 6
ditto128	91/2 7	5 0	ditto				5 6
ditto 92	8 6 6	10 0	Cape				3 0
		11 0	ditto				5 6
ditto119		5 6	ditto				
ditto129		15 0	ditto	9	321/	24 1	8 0
ditto100		4 0	Almeria				3 0
ditto 81		18 6	Berehaven	80	1035	7 1	9 0
ditto 13 1		10 0	ditto				8 6
Cuba 96 1	734 13	10 0	ditto				0 0
ditto 94 1		10 0	Paramatta				3 6
ditto 93 1		10 0	ditto	43	1714	13	4 0
ditto 4 6		10 0	Copper Ore	27	251	18 1	
ditto 92 1		8 0	ditto	94	137	10	6 6
ditto 90 1		6 0	ditto	19	947	18	8 6
ditto 70 2		2 6	ditto				0 0
ditto 1 5			Cop. Regulus				3 0
ditto 92 1		11 0	ditto	19	20	122	4 0
ditto 91 1		0 0	ditto				4 0
ditto 90 1			Caba	64	1.43/	11	7 0

COMPANIES BY WHOM THE ORES WERE PURCHASED: COMPANIES BY WHOM THE ORES WERE PURCHASED:—
Copper Miners Company 2 & 34 0
Freeman and Co. 154 1,381 2
P. Greenfell and Sons 462 4,558 12
Slms, Willyams, and Co. 129 3,136 9
Vivian and Sons 598 7,311 1
Williams, Foster, and Co. 531 9,660 10
Mason and Elkington 486 3,700 1
Bankart and Sons 27 504 4
Charles Lambert 95 1,865 4
Landore Copper Company 42 986 19 Total 2526 £30,154 3 0

Copper ores for sale at Swansea, May 26—Cape (about) 1100—Knockmahon 960—Berchaven 600—Copper Ore 370—Moonta Ore 96—Ballycummisk 82—Pomona 12 Copper Regulus 9—Casali 9.—Total, 3238 tons.

COPPER ORES. Sampled April 22, and sold at Tyack's Hotel, Camborne, May 7.

	T					Mines.	To	ns.	Pi	rice	
Clifford Am	algamated	102	. £3	4	0	Wheal Basset	58		£4	. 0	
ditto				6	6	ditto	47		5	13	(
ditto	********	95	. 3	6	6	ditto	38		7	1	6
ditto	********	92	. 5	0	6	ditto				8	-
ditto	********				0	East Pool	74		3	2	(
ditto					6	ditto	41		2	19	0
ditto	********			15	0	ditto				10	0
ditto				1	6	South Crofty	58		2	6	- 6
				2	6	ditto	54		2	7	•
West Seton		89	. 3	0	0					3	0
ditto	*********			19	6	North Grambler .	40		5	10	6
ditto				5	0	ditto				1	6
ditto		71	. 7	16	0	East Grenville	36		3	6	6
ditto		69	. 4	5	6	ditto	9		10	10	6
ditto	********	68	. 8	4	6	ditto	4		5	15	6
ditto		63	. 8	10	6	Wheal Busy	16		3	1	6
ditto	********			8	0	ditto	14		1	17	6
South Fran	ces	58	. 6	3	0	North Roskear	25		4	17	6
ditto		44	. 8	6	0	Wheal Grenville .	18		2	15	6
ditto				7	6	South Condurrow.	18		6	11	0
ditto	********	38	. 7	8	0	West Stray Park .	5		2	6	0
ditto	********	35	. 7	10	0						

Common control			
COMPANIES BY WHOM THE ORES WERE PURC	CHASE	ED.	
Names. Tons.	Am	oun	t.
Vivian and Sons 327	£1420	16	0
Freeman and Co 106	322	15	0
Grenfell and Sons 299	1673	7	0
Sims, Willyams, and Co 270	1995	14	0
Williams, Foster, and Co 191	1049		6
Mason and Elkington 35514	1609	4	3
Bankart and Sons 11512	388		8
Copper Miners' Company	649	15	0
Charles Lambert 222	817		6
		_	_

Copper ores for sale at Tabb's Hotel, Redruth, on Thursday next.—Mines and parcels.—Prosper United 483—West Basset 227—Wheal Margery 213—East Rosewarue 170—East Carn Brea 166—Botallack 98—Bampfylde 96—Copper Hill 92—Levant 81—Wheal Buller 29—Camborno Vean 24—West Briton 17—West Wheal Tremayne 17—Wheal Harmony 6.—Total, 1719.
Copper ores for sale at the Royal Hotel, Truro, on Thursday week,—Mines and parcels.—Devon Great Consols 1833—Marke Valley 464—Wheal Crelake 235—Bedford United 298—East Caradon 175—West Marla and Fortescuel 138—Princo of Wales 136—Wheal Friendship 125—Gannislake (Citters) 110—Wheal Emma 104—Devon and Cornwall 104—Wheal Crebor 75—East Rossell 74—Eelstone 44—Holmbush 37—East Gunnislake and South Bedford 32—Caradon Consols 28.—Total, 3932 tons.

Notices to Connespondents.

. Much inconvenience having arisen in consequence of several of the Numbe Juring the past year being out of print, we recommend that the Journal shou be filed on receipt: it then forms an accumulating useful work of reference.

Mosquito Land Warrants.—Some weeks since the holders of these securitie were informed that there were prospects of their claims being satisfactorily adjusted, and by the interposition of infinential parties other than Gen. Martiner The Journal being selected as the medium through which the information relative to this subject is communicated, I have written you to ask whether an and what progress has been made since the last meeting, which was preside over by Capt. Bedford Pim, R.N.?—A WARRANT HOLDER.

and what progress has been made since the last meeting, which was presided over by Capt. Bedford Pim, R.N., "—A WARRANT HOLDER.

Taxes on Mines.—In the very interesting communication from Mr. Alexander Somerville, in last week's Journal, reference is made to an enactment of the Ontarlo Legislature, taxing all land in proportion to its value as mining property, so that if the property be worthless no tax is payable, whilst if the property be to the property of the property o

mines, would secure capitalists against misrepresentation, and, in practice, would give satisfaction to—ONE AND ALL.

CALDBECK FELLS (CONSOLIDATED) LEAD AND COPPER MINING COMPANY (Limited).—As this mine, by its gradually improving character and increasing monthly sales of ore, seems likely soon to re-occupy the favourable position in the market it once did, I would suggest that the board should instruct the secretary to furnish you for publication the financial result of each month's operations—that is, the amount of cost, and the value of the ore returned. I should also like to be informed whether a considerable number of the shares were not forfeited at the time theoffiecs of the company were removed to Carlisle. If this were the case, it certainly would be as well if the secretary would inform you of the fact, so that the correction might be made in your Share List. As a market anomaly it may not, perhaps, be altogether out of course in this place to call attention to the circumstance that when a large amount of preliminary mining work had to be carried out, involving time and outlay for which calls had to be made, the shares were readily marketable at a premium, but now that monthly profits are being realised, and as the development of the property progresses, its prospects of becoming once more a permanently remunerative mine daily improve, the shares are comparatively neglected, or at any rate, do not command that attention or value which the deserve. I am aware that Sir kobert Briscoe, the Chairman, and his colleagues upon the board, each of whom has a considerable stake in the concern, render unremnerated services, being content to wait until the mine begins to make some return to the shareholders for their outlay; and for this the shareholders are much indebted to their executive. As, however, the general meetings are held but once a year, and as there is no office in London to which present or intending shareholders can repair for information, it is the more necessary that the suggestion I have made w

LONDON SHAREHOLDER.

COBRE CONSOLIDATED COPPER MINES—"A Shareholder."—The information required will be communicated at the special general meeting, which will be held in the course of a few days.

SHARE DEALING.—We never interfere in the sale or purchase of shares; neither do we recommend any particular mine for investment or speculation, or broker through whom business should be transacted. The addresses of most of the latter appear in our advertising columns.

THE MINING JOURNAL

Bailway and Commengial Gazette.

LONDON, MAY 9, 1868.

The Times made some apposite remarks with regard to the mineral statistics of the returns lately published by the Board of Trade, illus-trating the trade of several foreign countries, and particularly with re-ference to Belgium. Belgium has lately attracted a good deal of notice, as the Times states, by her rivalry to us in mineral industry; but our contemporary did not probe the matter, though there were figures pointed out well worthy of being examined, and particularly those re-lating to the importations of English iron into Belgium. This is a key to several operations; they mean, in fact, what are graciously called Belgian, or Anglo-Belgian, operations, and we think we shall render a service to the public in making these matters rather more inrender a service to the public in making these matters rather more intelligible. It is the opening up of a system of commercial jugglery, developed by the late finance operations, which has already done great damage to the commercial interests of this country, and threatens to do still more, even at the present time. Most of the Anglo-French transactions are nearly as objectionable. It has always appeared very suspicious that a country so limited in resources should appear as a rival to us in large operations, but there was a difficulty in following the matter up—first, because the transactions take place in remote countries, and, next, because the facts have only lately been disclosed. Belgium, of course, does not come into our home market, proffering to assist our equitalists: but her transactions are carried out in rebeignin, of course, does not come into our home marke, properly
to assist our capitalists; but her transactions are carried out in remote countries, such as those of South America and the East, and
they are so cloaked by the use of the English name that the public
have not yet fathomed them. By the publication of these returns and
other documents, within the last fewdays, a clue is at length afforded
to provide the province.

other documents, within the last lew days, a clue is at length shorded to part of the mystery.

The report of the Varna and Rustchuk Railway affords one of these illustrations; but instead of beginning at the end, like a lady in reading a novel, it is just as well to begin at the beginning, and the more particularly as people will ask—Where is this Varna Railway, and what have the Belgians got to do with an English company? though it would be much more pertinent to enquire what is the meaning of last week 's telegram—that Messrs, VAN DER ELEST and Co., representing the Angle Religian combination have get a concession of several home. last week's telegram—that Messrs, VAN DER ELST and Co., representing the Anglo-Belgian combination, have got a concession of several hundred miles of railway? The concession for the Varna Railway, in Turkey, was obtained some years ago by a Belgian resident in Turkey. He could do nothing with it in Belgium, for there were no finance companies there, and he got it taken up by some English contractors and speculative directors, on condition that the Belgians should be represented on the board, and have the supply of the rails and locomotive stock. In Turkey the company figured as an English company. It should be noted that neither Belgians nor English directors subscribed for a pound's worth of shares, but began an operation with Belgian and Frankfort bankers for issuing debentures at a tremendous Belgian and Frankfort bankers for issuing debentures at a tremendous discount among Belgians and Germans. The Belgians and their co-adjutors hoped in time to place the share capital for their own benefit. This they did not fully succeed in doing, but they did to a very considerable extent by a very beautiful operation with one of our leading finance companies, planting a considerable portion of the shares

on the English public.

The Belgians having to furnish the iron could not compass the whole affair, but, as appears from the returns, got a considerable portion from this market. In Turkey the Government authorities were astonished that the English, whom they have always looked upon the chief industrial nation in Europe, and from whom they had ol tained their marine and stationary engines, mint, arsenal, and dockyard plant, were obliged in making a railway to get locomotives and other supplies from the Belgians. Taking the hint, the Government gave a large contract for breech-loaders, not to the English, as usual, but to the Belgians. This was not the end of our disasters. The but to the Belgians. This was not the end of our disasters. The English contractors failed, as under the finance regime English contracting have failed; the line was opened, after a fashion, under the auspices of the English directors, who went to Turkey for the purpose, and soon, as appears by their report, the Belgian axles and other supplies began to show their technical peculiarities, contributing to the stoppage of the line and its bad working, and this was laid upon the English company.

upon the English company.

It was not enough for us to get the discredit, but the Belgians, or Anglo-Belgians, got what plums there were. Throwing the blame of all the failures on the English, and at a time when the SULTAN and

Belgrade, joining on to the European system, and two great connecting lines, extending to the ports of Salonika and Enos. Messrs. VAN DER ELST and Co. very generously resolved at an early period not to exclude us from the advantage of contributing capital for their benefit, and they dubbed it an Anglo-Belgian combination, though we believe the English portion, in the shape of English sovereigns and English iron, is yet to come. Two other little incidents meanwhile occurred. The first instalments of Belgian breech-loaders arrived much behind time, and, although wonderfully cheap, were found to possess the usual virtues of the famous Belgian fire-arms, so well known on the West Coast of Africa. The Ottoman Government, seeing these breech-loaders were treating Turkish soldiers like negroes, stopped the supplies, and cancelled the contract. This was the sole stopped the supplies, and cancelled the contract. This was the sole check. The other event was this:—The Belgian Ambassador, a mighty personage at Constantinople, on behalf of the Belgian directors and bondholders, placed an interdict on the guarantee payable by the Ottoman Government, so that the interest professed to be granted by the Belgian and English directors to the English shareholders on their lately-issued shares might not be paid, but appropriated solely to the Belgian and German bondholders, the management of the line being put into the hands of their trustees to pay themselves. The unfortunate English shareholders are now in this mess.

tunate English shareholders are now in this mess.

A great many of the Anglo-French and Anglo-Barbarian ventures are of the same description—enterprises to employ English capital and English credit for the aggrandisement of other nations, and the injury of our own people. It is in this way the iron and copper trades, by the perversion of free trade and international treatise, and, it may be added, credit mobiliers and other French finance dodges, are being crippled at home, and stimulated in France, Belgium, and Prussia, to our damage. There was one English company which carried on a prosperous business abroad. In an unluckly hour, at the time of an extension of capital, they made an Anglo-French company of it, the French to contribute one-third of the capital and the English two-thirds, and the French to have half the directors. In a short time a Frenchman was put at the head of the concern instead of an Englishman, the very books and documents of the company turned into French instead of English, the French selling off their shares at a premium in England; and the French directors, when they ceased a premium in England; and the French directors, when they ceased to represent more than a minimum of French stock, employing part of the capital in finance operations in Paris. Apart from the other damage done to us, of course prestige was conferred on the French in a foreign country, to our detriment.

It would be very bad if the Belgians or French really contributed the small portion of central essigned them and got the greater portion.

the small portion of capital assigned them and got the greater por-tion of the advantages; but it is far worse, they do not contribute their portion of the funds, but, first or last, get it out of England. One way is for the foreign finance companies or houses, engaged in One way is for the foreign finance companies or houses, engaged in the proceedings, to keep on drawing on England, and going the round in the exchange market, till such time as they can palm their shares on the English public, commonly at a premium. These credit companies, which we might call discredit companies, are generally connected with the respective Governments, and get aid from the State banks for any operation for the good of their countries, under the sanction of the Minister of Commerce. We never heard of their really contributing for English purposes, except on their being taken in by those famous examples of the order, OVEREND and Co. (Limited) and the Imperial Mercantile Credit Company, who palmed on them and the Imperial Mercantile Credit Company, who palmed on them some sham accommodation bills just before the era of darkness—Black Friday. The foreigners get great advantages, too, in having something more like limited liability, without official liquidators on Lord Chancellon's pay. The constitution of these Anglo-French and Anglo-Belgian companies is also exceedingly unfavourable to English shareholders, and very favourable to the directors. The discovery are always highly reported by the statement of the second and the second control of the English shareholders, and very favourable to the directors. The directors are always highly respectable men, titled foreigners and distinguished Englishmen. Somehow it does happen that these highly respectable men do very strange things, they feather their nests in an admirable manner; the shareholders find themselves minus, and, make as much noise as they may, they get no redress. Sometimes the nominal meeting is held in London, but the effective and legal seat of swartings at the distribution the distributions the distributions and the second statements. the nominal meeting is held in London, but the effective and legal seat of operations, the domicile of the societe anonyme, is in Paris or Brussels. But at all events, the shares are to bearer, and must be lodged in London many days. None but the directors know the main body of the shareholders. The shareholders may be very audacious, but the directors are very firm, and stand upon their honour. A poll is taken, and large bags of shares, borrowed of the banks and finance companies, give a glorious victory to the directors over their persecutors and calumniators. If the directors choose they wind up with a vote of censure on the disturbers of serenity and blind confidence. As, in fact, the main body of these highly respectable men, commercial magnates of London by courtesy, are in reality men without real principle, and it very often happens are foreigners, they care very little about the national character of England, or the advancement of its mineral industry; they are citizens of the world, asking no question as to whence money comes, so there is nothing to be hoped from them. The remedy must be sought in some other quarter, and in the meanwhile we think it worth the trouble to point out, for public consideration, a few facts, more particularly and di-

out, for public consideration, a few facts, more particularly and di-rectly affecting our mineral interests, though, if we chose to extend our illustrations, we could show how these Anglo be-devilled performances extend to steam navigation, gasworks, and other branches of in-dustry, thereby coming down again on our mine adventurers and manu-facturers, but none the less on our hardworking mining population.

THE GREAT METALLURGICAL PROBLEM OF OUR TIME,

It has been written, is-How to "convert imperfect irons into iron It has been written, is—How to "convert imperfect irons into iron in its best form," which, it is added, "is that of steel." The report in the Journal of last week, describing what took place at the last meeting of the Cleveland Institute of Engineers, is the most recent manifestation of the intense eagerness with which, upon this subject, our leading ironworks, chemists, and engineers are pursuing their investigations. The interest in it throughout the iron-making world of Great Britain is all-absorbing. We have, therefore, taken those steps which enable us to sketch the leading features of the question as it now stands. By a personal visit we have made ourselves familiar with what is being done where the chemical process is in practical operation, and where the products are goods sold in the markets open for such mercantile commodities.

That the value of the much-contested method may be understood by contrast, attention should be briefly called to what took place soon

by contrast, attention should be briefly called to what took place soor after the reading by Mr. BESSEMER of his famous Cheltenham paper Amongst the gentlemen who were present in London by invitation of Mr. BESSEMER, and who witnessed the comparative failure at that time of the process, even with Blaenavon iron, was a maker of pigs in South Staffordshire, who was curious to know what would be in south standanie, who was curious to know what would be the result of the use of iron of the class smelted by the majority of the ironmasters present if no more satisfactory issue than the making of scull-iron followed upon the treating of the best cold-blast pigs. He should in particular like to learn what would be the result upon iron of the most inferior character? With a view to the solving of the query, he had some pigs sent to Mr. BESSEMER which had been made with as large a proportion of tangender in them as could at that query, he had some pigs sent to Mr. BESSEMER which had been made with as large a proportion of tap-cinder in them as could at that time be used. The result of the BESSEMER process upon this iron was not to produce steel or even scull-iron, but simply to p roduce a magnificent display of sparks, in which the whole bulk disappeared. Mr. BESSEMER and Mr. LONGSDEN, however, continued at work, and in two or three years, assisted by the use of spiegeleisen, and the lapsing of Mr. MUSHET'S manganese patents, the process came again before the public. It was received with coldness, and by becoming a manufacturer of steel himself Mr. BESSEMER had to demonstrate the worth of his invention. Enabled now to introduce the requisite amount of carbon into his blown iron, Mr. BESSEMER succeeded in making useful steel, not from Blaenayon, and other cold-blast irons. making useful steel, not from Blaenavon and other cold-blast irons alone, but also from the hot-blast hematites now made in abundance in the North Lancashire and the West Cumberland districts. But even with spiegeleisen, or a pure alloy of iron and manganese, Mr. Bessemer, as is well known, has not yet succeeded in producing a workable steel from any iron inferior in quality to the hot-blast he-

are still unprovided for. In the discussion which followed the reading of his paper "On the Manufacture of Cast-Steel; its Progress, and Employment as a Substitute for Wrought-Iron," at the meeting and Employment as a Substitute for Wrought-Iron," at the meeting of the British Association in Birmingham, Mr. BESSEMER himself remarked that "there was still a large gap, a fine field of discovery for many a clever man for years to come;" and clever men are entering this fine field in great numbers. Chief amongst them is Mr. HEATON, who, at this juncture in the history of mechanico-chemical steel making, is playing a very important part. Up to this period the difficulty which chemists had to contend with in treating molten in the property of the property of the second of the difficulty which chemists had to contend with in treating molten in the property of the second of the difficulty which the property of the second o iron with chemicals was due to the minute specific gravity of the converting substances, as compared with the molten iron. They had not devised any available means for keeping them in a position in regard to the fused mass by which the gases evolved from the chemical should be prevented from rising to the surface, and spending their gard to the fused mass by which the gases evolved from the chemicals should be prevented from rising to the surface, and spending their energies upon the surrounding atmosphere instead of upon the iron. Mr. HEATON, however, being an engineer as well as a chemist, hit upon the ingenious plan of confining the chemicals at the bottom by covering them with a perforated iron plate, held down by the overhanging edges of brickwork, judiciously placed near the bottom of his convertor. Thus, Mr. HEATON became the first of the many experimenters with soda who developed the method so as to make it practicable in a commercial sense, for he is carrying it out at the Langley Steel and Iron Mills, near Nottingham, of which he is the managing director. We have visited these works, and after seeing how the soda system is making sheet-iron and steel of the first quality—as indeed was shown in the samples which we inspected, exhibited at the last quarterly meeting of the Cleveland ironmasters—we confess to much sympathy with Mr. HARGREAVES, who, after the reading of Mr. GJERS paper, showed a piece of excellent steel, made by the method which Mr. GJERS condemned, and, quoting the hacknied remark of the French theorist, said, "So much the worse for the facts." At Langley Mill the perforated plate, held down as we have described, confines the chemical materials below the mass of molten iron, and obliges the evolved gases, by which the conversion has to be produced, to effectually perform all the work of which they are capable. In this way steel has been produced not alone from the best descriptions of iron, equal to Blaenavon, and from the hematites which are used in the BESSEMER process, but also, and chiefly, from iron made out of the clayband stones. And even a very superior description of refined metal, only a trifle inferior to the best steel, has been manufactured by Mr. HEATON exclusively from the tap-cinder iron which, it will be remembered, Mr. BESSEMER's process reduced simply to sparks. A specimen of such metal is held by

here mentioned. •

Looking, therefore, at the respective capabilities of the BESSEMER and the HEATON methods to make steel of the great bulk of our iron ores, we cannot but think that the latter seems the most likely to possess the qualities which, perfected, will bring about the desired result. The purely chemical arrangement, although at present limited in its development, we believe to be scientifically much in the van. For any chemical combination, so wide in its capability of application as to produce such results on inferior irons—irons that cannot be used in the BESSEMER process—necessarily give the resulting methods of manufacture that position.

The great defect in the manipulation of the soda process, charged

be used in the Bessemer process—necessarily give the resulting methods of manufacture that position.

The great defect in the manipulation of the soda process, charged against it by its adverse critics is, that it cannot be regulated when once the converter has been set on. Neither Mr. Heaton, however, nor Mr. Hargreatyes, regard this as a difficulty of practical moment, for the quantity of carbon usually found in specific brands of pigiron being ascertained, the nitrate is used in proportion.

The specimens shown by the Langley Mills Company at Middlesborough, all made by Mr. Heaton's process, from Middlesborough iron, must have convinced the most sceptical that "the great metallurgical problem of our time" is on the eve of being solved; and our visit to Langley Mill has confirmed our own expectation. There the company with whom Mr. Heaton's associated have expended a large amount of capital in the laying out, under Mr. Heaton's supervision, much of upwards of four acres of ground, with all the appliances necessary to the carrying out of his method upon a scale which will enable them to manipulate, by rolling and forging, some 600 tons of steel and steel-iron a week. They can convert that quantity with their present machinery, but they cannot complete much over 60 tons. Their preparations embrace two departments—the one the reverberatory, and the other the casting; the latter will embrace more than 40 crucible furnaces. The conversion of the pig-iron into refined metal occupies from three to seven minutes only, and instead of the lapse of nearly five weeks being necessary to produce crucible steel it can be made in a few hours. A forging of crucible steel, which was in the state of pig-iron at 11 o'clock in the forenoon, was, a few days ago, carried away by a party of visitors who left Langley Mill at 4 o'clock in the afternoon. Rolled steel could be produced in even a shorter time, for the puddler is altogether dispensed with, and the ball furnace alone used for purifying the metal of the sodium left in it af

it after the converter has done its work.

Mr. HEATON frankly confessed to us that his method has not yet been got to that perfection which will enable him to east ingots direct from the converter, but in dispensing with the puddler he has conferred an enormous boonupon theiron trade. The conclusion at which, by our visit, we have arrived is, that though not perfect, yet the system is capable of wide adaptation; and we hope that the inventor's terms for its use will encourage experiments with it by the makers of the poorer pigs, who we know are waiting eagerly for an opportunity to turn their property to an account, of which they believe Mr. HEATON has shown it to be capable.

SCOTCH STRIKES, AND LOCK-OUTS

Among miners no doctrine has so ineradicably woven itself into the texture of their natures as that any reduction of wages is an act of tyranny on the part of the masters, which ought to be vehemently opposed. With men whose minds are so foreclosed to all reason reasoning is not only quite useless—"water spilt upon the ground"—but, as a rule, it is regarded by them as an indication of weakness on the part of the masters, which ought to be repudiated. Their true safety depends on a strike that will press their employers into a willing acquiescence. It is of no avail that employers urge that the price of their minerals is falling in the markets of the world, and that a necessity is laid upon them to reduce the labourers' bird. and that a necessity is laid upon them to reduce the labourers' hire, which they would much rather not do. In the meantime there has been agitation carried round the whole district, and those who would have willingly taken the employers at their word are sucked into the most exciting and incongruous language is used, a strike is proclaimed over the district, to break up the masters' "conspiracy" against the rights of their noble, but ill-used, workmen.

In 1837 the colliers of Lanarkshire opposed a reduction of their

wages from 35s, to 30s, a week by a strike, which was continued with great virulence over a period of six months. Upwards of 2000 workers were set idle, and if we add the other labourers that number would not fail to be doubled. What was the result? It was estimated that the loss to the manufacturing and industrial interests in Glasgow and neighbourhood reached nearly half a million sterling; the colliers lost 78,000%, in wages, and their labourers 111,000%, besides the beggary and turbulence, and idle habits which arose out of the stupid and lawless course they had pursued; and it ended by their resuming work on the terms they had six months previously rejected. This is a lesson from the past—are our miners of the present day more considerate? Have the lessons of the past rendered them more teachable, less violent, more charitable in their opinions towards their employers? Alas! no. There are, unfortunately, no accredited statistics to which we can turn that will give us an accurate account of the 30 years which extend from 1837 till now, but the loss to all concerned cannot be less than several millions sterling! And that is only the money part of the question. What of the starystion and the beggary and turbulence, and idle habits which arose out of the. all the failures on the English, and at a time when the SULTAN and Government were red-hot for railways, on their return from England, the Belgians appeared as railway makers and capitalists, in the persons of Messrs. VAN DER ELST and Co., bankers, of Brussels, and obtained the pick of the railway system, for which the English companies had prepared the way. Messrs. VAN DER ELST and Co., have got concessions of the main European line from Constantinople to late the succeeded in producing a best succeeded in producing a dissipation, and demoralisation the miners, as a class, have had to endissipation, and demoralisation the miners, as a class, have had to endissipation, and demoralisation the miners, as a class, have had to endissipation, and however, it is desired that the great abundance of the lot of their families, which might have been greatly mitigated, if not wholly overcome, by persevering and honest industry. On the other hand, with the general public the frequent recurrence of strikes

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veloc to the gas, s to air and lock-outs in the mining trade is being regarded as if these contests were provoked by the mine owners themselves, and the nature of the miners' employment greatly aids their cause; but this is wholly suppositious, as a little consideration will show.

There are three primal elements that constitute the market price of

There are three primal elements that constitute the market price of every article of commerce—First, the cost of the raw material; second, the cost of production; and, third, the cost of transit to the market. With regard to the first of these, "the cost of the raw material," as a rule, the manufacturer goes to a market which fluctuates from day to day, and either purchases for immediate wants or lays in a stock, as he sees fit. But the mine owner cannot do that. He purchases his raw material for a long period of years in advance—not unfrequently for a term of 25 years, and at a fixed rate; so that the first of the three elements which go to constitute the price remains, in all states of the market, unalterably fixed. Passing over the second, which will be noticed immediately, let us look at the third—"the cost of transit to market." Generally, traders and manufacturers have the option of competing routes for sending their goods to the market, and they can either select the cheapest, or enter into special contract by which their produce may be carried on advantageous terms. The mine owner is not so situated; his works must be planted where the minerals exist, and rarely has he more than a tageous terms. The mine owner is not so situated; his works must be planted where the minerals exist, and rarely has he more than a single route to market; and, whether that route be a canal or a railway, the directors fix the rate, and it remains the same in all states of the market. As two of the primal elements which go to constitute price are unalterably fixed, so far as mine owners are concerned, the third is the only one which can be varied, and still these variations need neither be so numerous nor so sudden. To bring about a state of harmony between masters and workmen we suggest that a scale of rates per ton should be paid for the various kinds of mineral in relation to their value at the pit mouth, and the difficulty of working them. This is the basis on which wages are at present founded, and if such a scale were mutually agreed on both parties would know how wages would rate, and the reduction or advance would be submitted to rgiven in conformity with that scale, without the necessity of any would rate, and the reduction or advance would be submitted to or given in conformity with that scale, without the necessity of any contest. In some districts of Scotland a graduated scale of wages was adopted last year, but it was for seasons of the year, and not for mineral value, and thus being founded on incorrect principles it was discovered to be unworkable, and was withdrawn after a few weeks' trial. We give these hints in the hope that some plan will be devised that will stand the test of trial, and bring about that harmony between sextical and labour on which alone prosperity depends. tween capital and labour on which alone prosperity depends.

THE PRINCE OF WALES SLATE COMPANY (LIMITED).

THE PRINCE OF WALES SLATE COMPANY (LIMITED). We informed our readers a few weeks since that arrangements were in progress for re-establishing this company on a sound and satisfactory basis. We are now enabled to give some further information of a reliable character in confirmation of that statement. A new company is proposed to be registered, for the purpose of purchasing the entire property for 4500 paid-up shares of 5l. each, the nominal capital of the new company being 50,000l.; there will thus remain for working capital and contingencies 27,500l, which appears to be an ample reserve for all purposes. A large and most influential meeting of shareholders was held on April 30 at the offices of Messrs. SMART and SNELL, in Cheapside, when a resolution was carried with only one dissentient, authorising the liquidators to enter into the foregoing arrangement. We congratulate the shareholders into the foregoing arrangement. We congratulate the shareholders in this company on the success which has attended their efforts, and venture to express our belief in the hopefulness of their renewed operations. It is generally admitted that the property in question is of great and undoubted value, and it would have been lamentable if any merely financial difficulty should have interposed an obstacle to its complete and profitable development. The plan proposed, and to its complete and profitable development. The plan proposed, and the statement appended to the prospectus, appear unexceptionable. A strong recommendation to new, as well as to the old shareholders, and an unusual guarantee for the bona fides of the scheme, will be found in the fact that the directors of the new company, among whom are some of great practical experience, together with the general manager, held, between them, upwards of 4000 shares in the old company, or nearly one-half of the issued shares. We have carefully perused the prospectus and proposal, but we believe it is only intended for circulation among the parties at present interested. We are informed that several hundred shares have been applied for by the old shareholders. by the old shareholders.

OUTBURSTS OF GAS, &c., IN COAL MINES. THE VALUE OF AN EFFICIENT SAFETY-LAMP.

The absolute reliance that may be placed upon the Stephenson safety-lamp was pointed out in last week's Journal—the mere circumstance of so large a colliery as the Strafford Main, where 300 men cumstance of so large a colliery as the Strafford Main, where 300 men and boys are employed, becoming filled with an atmosphere so explosive that a single defective lamp would have led to the firing of the pit, affording conclusive evidence that, for all practical purposes, the Stephenson is perfect. Owing to the generally fiery nature of the South Yorkshire collieries, the relative value of the various descriptions of safety-lamps are, perhaps, more severely tested there than in any other district, and the general opinion entertained amongst those to whom the management of the pits is entrusted is that one important condition or requirement is the quality of self-extinguishing when exposed to fire-damp. But, notwithanding the confidence which the invariable safety of the Stephenson lamp, judged of by the test of practical experience, had secured for it in Yorkshire, the announcement of experiments on safety-lamps to be conducted by the Lamp Committee of the North of England Mining Institute led inventors to the conclusion that something superior to any existing

lamp committee of the Norm of England shifting institute led inventors to the conclusion that something superior to any existing lamp was imperatively required.

Actuated by these considerations, Mr. D. P. Morison, of Pelton Colliery, Chester-le-Street, devoted his attention to the production of a more perfect lamp, and succeeded in submitting lamps which underwent the experimental tests in the most creditable manner. Of these lamps one was a certifulty constructed lamp on the Grover and Call. lamps one was a carefully-constructed lamp on the GLOVER and CAIL principle, and the other a modification of that of Messrs. UPTON and ROBERTS. Describing his lamps, in the Mining Journal of Nov. 23,

Mr. Morison writes-Mr. MORISON writes—

"I have taken as the basis of my improvements the lamps already known as Uprox and Robers?" and Call, and Glovers's; but what I claim is that both of these lamps in their original form exploded when subjected to a current of explosive mixture—in the case of the former of 11 feet per second, and in the latter of 8 ft. per second (the same as that at which the Davy, Mueseler, Clanny, and other similar lamps explode)—my modifications of these lamps will stand any current, even up to 35 feet per second, without any danger of passing the flame. In the No. 1 lamp the patented improvements consist of an exterior protesting shield, a better and more simple arrangement, at the ingress of the air one or more dises of wire gauze inserted in the hollow top, and a greater length of the cylinder of the lamp. In No. 2, of a chimney composed of two converging cone-shaped funnels of sheet-iron, brass, or other substance, and of an arrangement of washers on the wire gauze or perforated metal discs at the top and bottom of the glass cylinders."

It appears that since that time some further, improvements in the

It appears that since that time some further improvements in the No. 2 lamp have been introduced, and Messrs DEAGON and MORISON, the patentees' agents, have just forwarded to the Mining Journal office one of the lamps embodying the latest improvement. They claim that with it the necessity for an efficient lamp, referred to as pointed out by Mr. P. COOPER last week, has now been thoroughly met, as the newlamp combines the advantages of perfect safety (it has been tested in an explosive mixture with a velocity of 35 ft. per second); of ex-cellent light and steady burning; that, the glass being double, it is not in the least liable to break from over-heating, owing to the current in the least liable to break from over-heating, owing to the current of fresh air passing between; of not being extinguished by currents of air of the highest velocity (it has resisted 70 ft. per second); of susceptibility to fire-damp, which, in the smallest of quantities, is shown in the flame; and of being at once extinguished as soon as shown in the flame; and of being at once extinguished as soon as the proportion of gas reaches explosibility. They regard the last-named property as, perhaps, the most important, especially in conjunction with the fact that it will resist an explosive mixture, though moving at such high velocities as 30 and 35 ft. per second, the highest velocities attainable in the experimenting box at Hetton. Referring to the notice of last week, they remark that in sudden discharges of gas, such as that referred to by Mr. COOPER, the proportion of gas to air would be too great to be explosive, so that however fast it might be travelling it would merely put the flames of the lamps out; the danger is, however, when with mechanical ventilation the quantity.

and velocity of the fresh air is greater, that an explosive mixture is more readily produced by sudden discharges, and, impelled by the current, more certain of firing the lamps—in such an instance the Stephenson, which fires at 9 ft. per second, would not be reliable at all.

MINING, METALS, AND MINERALS-PATENT MATTERS. BY MICHAEL HENRY,

Patent Agent and Adviser, Memb. Soc. Arts, Assoc. Soc. Eng.

Mr. Thomas Prideaux, Sheffield, has recently specified an invention for smelting and treating iron, and blast-furnaces or cupolas employed for such purposes. It appears from the specification the invention relates to a new method of smelting iron from the ironstone, whereby the patentee proposes to entirely dispense with the water tuyeres which are at present used. A passage or pipe is constructed and dispensed report the furnace between the inverted and the furnace and th and disposed round the furnace, between the inner and outer brick-work, under the boshes or boshing. Above the level of the dam from this passage are a number of perforations, which open into the in-terior of the furnace. The blast is let into the passage and through the perforations, and it thereby spreads over the whole surface of the furnace. By this arrangement the patentee believes that great ad-vantage is derived, as the passage around the furnace acts as a beat. vantage is derived, as the passage around the furnace acts as a heat-ing surface, and thereby a great degree of heat is attained before the air or blast passes through the perforations into the interior of the furnace. To dry or calcine the ironstone before it is introduced into the furnace, vertical gratings are constructed at the top of the furnace, having valves at the dip. The ironstone is "tipped" or thrown on to the gratings. The gases or gaseous products and heat from the furnace ascend through the grating, and thereby dries or calcines the ironstone as may be found necessary. The valves at the dip of the grating are constructed in such manner as to permit of the dis-

charging of the stone from the grating into the interior of the furnace,
Mr. George Haseltine, of Southampton-buildings, has specified
a patent relating to the manufacture of iron and steel. This invention has been communicated to him from abroad by Alexander L.
Holley, New York, United States. The chief object of this invention
is stated to be the peculiar means employed for casting two or more
ingers in ordinary separate ingot, moulds at one pouring or teeming. ingots in ordinary separate ingot-moulds at one pouring or teeming. For this purpose it is preferred to place a group of ingot-moulds, made of cast-iron or other material, around a central ingot-mould, somewhat higher than the others. If they are compound moulds it is best to hold them together by one or more common bands passing around the group, and tightened by wedges. All these moulds are set upon a box or flask filled with moulding sand or other moulding material, in which are moulded sprues or runners, connecting the lower end of the central mould with the lower ends of the surrounding moulds.

Mr. GEORGE WILKINSON, of St. Leonard's-road, Bromley, has spe-Mr. George Wilkinson, of St. Leonard's-road, Bromley, has spe-cified an invention relating to pumps. In his specification he states that the suction-pipe of the pump is arranged to rise up at the side of the pump cylinder in a chamber provided for it. The cylinder communicates at its lower end with this chamber. The cylinder also contains a valved piston, or bucket, to which a short and rapid stroke contains a variet piscon, or bucket, to wind a short attain a pay stoke is given, usually by a crank and multiplying gearing. The suction-valve is mounted at the top of the suction-pipe at a level above the piston or bucket, so that the piston or sucker is necessarily and at all times submerged in the water. The water is delivered through the piston or bucket, and passes the clack or valve therein, and it escapes by a spout or delivery pipe at the upper end of the cylinder, above the piston or bucket. the piston or bucket.

the piston or bucket.

Among recent applications for patents are the following:—W. WRIGHT, Mostyn, manufacture of iron and steel. J. CASSELL, Limehouse, sheathing iron ships. A. MUNRO, Arbroath, machinery, tools, and tool-holders for cutting stone, slate, marble, &c. W. EVERITT, Birmingham, manufacture of copper, brass, and metal tubes.

The following notices to proceed with applications for patent have been lodged:—Dr. Allshorn, Ludgate-hill, artificial fuel; Rowan, Glasgow, moulds, or apparatus for casting steel; CLARKE, Redditch, wrappers for needles; LEWIS, warming and ventilating; GLOVER, Pimlico, lamps for burning benzole, naphtha, &c.: Mennous (com-Findico, lamps for burning benzole, naphtha, &c.; Mennous (communication from Macomber, Paris), combining hydro-carbon vapours with oxygen and hydrogen, and burning mixtures as fuel; Fraser, Commercial-road, furnaces or fire-places; AVERY, Redditch, needle-cases; PITTAR, Gresham-street, mineral and rock-drilling apparatus; TILDESLEY, Willenhall, furnaces, fire-places, and stoves; ADAMES, Birmingham, metal buckets, pails, or tubs; Jones, Blaina Leonworks, air-exhausting metales and other Ironworks, air-exhausting machines for ventilating mines, and other similar purposes; and also for apparatus for hauling minerals in mines, and raising water from mines and other places; DITMARS, Pancras-lane, smoke-consuming apparatus (communication from Wilhelms and Van der Made, of Dordrecht); SIEMENS, applying gas-furnaces to evaporating smelting, puddling, and other purposes.

ROYAL CORNWALL POLYTECHNIC SOCIETY.—The prize list for the current year has just been issued, and from the large number of recompenses offered there are good grounds for anticipating that the number and importance of exhibits will be this year far above the average. In judging of the inducements to exhibit, the exhibitor is usually guided by the value of the prizes offered, and in estimating this value the intrinsic worth of the prize is far less considered than the amount of prestige attaching to the gaining of it. Now, in all matters connected with the county of Cornwall—its industries, its antiquities, its fine arts—the winning of a Cornwall Polytechnic prize or premium is generally accepted as an undoubted evidence of merit, and from the large number of subjects for which rewards are offered there are but few classes excluded from its beneficial operation. Natural Philosophy, Chemical Analysis, Mechanical and other Scientific Inventions and Improvements, Models of Machinery not displaying invention, Naval Architecture, the various branches of the Fine Arts, Natural History, Statistics, Essays, Scientific Papers, &c., are equally cared for; whilst owing to the high social position and extensive practical knowledge of the gentleman to whom the distribution of the prizes and premiums will be entrusted, a substantial guarantee is afforded both that the awards will be fairly and impartially made, and that the judges are fully competent to decide upon the relative merits of every exhibit submitted to them. ROYAL CORNWALL POLYTECHNIC SOCIETY.—The prize list for the merits of every exhibit submitted to them.

THE IRONWORKERS' STRIKE.—It has come about just as we expected it would; the puddlers in South Staffordshire, who have no money in their own funds, have been kept out by promises of help made to them by interested Unionist leaders, who profess to know most of the minds of the North of Eugland men. Sums per week as large as 13s, or 14s, have been spoken of, and men have believed it come notwithstanding t from time to time. It was to have come a fortnight ago, but it did not; it was then to have come last Saturday, but it did not; it was sure to come last Wednesday, but it did not. On that day we see that men assembled at central spots in different parts of South Staffordshire, eagerly expecting to receive the long-deferred aid, but they had to be content with the most flimsy excuses. Hope deferred is making their hearts sick, so they are gradually dropping in at most of the works, and the leading works in the centre of the Black Country is wholly on in all of its departments at the full drop.

SALE OF MINERAL PROPERTY IN SOUTH WALES.—Messrs. Fuller, Horsey, Son, and Co, submitted for sale at the Auction Mart, Tokenhouse-yard, on Thursday, by order of the Master of the Rolls, the free-hold mineral property known as the Blaina Ironworks, together with the Blaina Inn, Blaina House and grounds; three houses, for manager, surgeon, and cashier; 37 houses for workmer; shops and schools at Blaina; a station on the Western Valleys line of the Monmouthshire Railway, about :0 miles from the shipping port of Newport, and in direct communication therewith; the total area being 34 acres, with 11 scams of coal of the aggregate thickness of 41 feet, and seven courses of rich ironstone. There was also included in the sale a lease-hold interest in two mineral properties adjoining, having an area of 47 acres; the whole being situated in the parish of Aborystruth, Mommouthshire, and immediately adjoins the estates of Messrs. J. and C. Bailey and the Blaenavon Company, and the coal and ironstone have been worked for many years past. The ironworks comprise two blast-furnaces, steam-engine, boiler, and every necessary for full working. A large amount has recently been expended on the machinery of the saw-mill, and in erecting coke-ovens, &c. The auctioneer said that Mr. Hedley, the eminer ming engineer, in December, 1885, reported "that there are sufficient unworked minerals to secure the minimum royalities in perpetuity, and that the existing shafts are sufficient for working out the whole of the minerals." This being so, and the quality of the minerals having been thoroughly ascertained and approved, this property may be recommended as a sound SALE OF MINERAL PROPERTY IN SOUTH WALES .- Messrs. Fuller,

one for the investment of capital. The property being offered for sale by order of the Court of Chancery, a reserve price was placed in his hand, subject to which it would be sold. No bid being made, the property was withdrawn.

REPORT FROM NORTHUMBERLAND AND DURHAM.

MAY 7.—The Coal and Coke Trades are improving a little, although they are far from brisk as yet. Considerable shipments have been made of all descriptions of coal lately at the principal ports, and the colliers have been better employed. Tenders are required for the sinking of a new shaft at Tanfield Lea Colliery, near Gateshead. It appears that a new shaft, 8 feet in diameter, is to be sunk from the surface to the well-known Busty seem a colling coal of excellent

colliers have been better employed. Tenders are required for the sinking of a new shaft at Tanfield Lea Colliery, near Gateshead. It appears that a new shaft, 8 feet in diameter, is to be sunk from the surface to the well-known Busty seam, a coking coal of excellent quality. The Iron Trade continues to improve slowly, the demand for ship-plates being good. The prices of pig-iron remain as before—No. 1, 47s.; No. 3, 43s.; and No. 4, 42s., nett cash f.o.b. at Middlesborough. There was a large attendance at Middlesborough market on Tuesday. Specimens of iron ore from the mines of Algeria, called De Mokta El Hadid, were exhibited by Mr. Fallows. It is stated that this iron ore contains from 65 to 70 per cent. of iron, and can be sold at 10 frs. per ton. Foundries are reported to be better off for orders. Coal and coke are unaltered. Shipments to the Continent have fallen off, but there is a fair amount of business with Scotland and Wales.

At the Northumberland and Durham Miners' Permanent Relief Fund annual meeting, held at Durham, on Saturday, Mr. John Burdess, of Jarrow, was appointed chairman. Mr. Alex, Blyth (the secretary) read the report and financial statement of the fund :—The number of members has now reached 11,000, being a large increase over the number of members has now reached 11,000, being a large increase over the number of members has now reached the public generally. A large proportion of the coal owners in the district are showing their high appreciation of the society by contributing the 20 per cent. on their workmen's contributions, and are giving it further support by allowing the monies to be collected at the payoffices. The Northern Coal Trade have certainly set an example in this respect worthy of imitation, inasmuch as no other portion of the commercial community have made such sacrifices to help the unfortunate among their employees; and the committee would urge upon the delegates present the necessity of doing all in their power to extend the society till every miner in the district has

PRESENTATION TO A COLLIERY MANAGER.—A deputation from the agents and workmen of Cramington Colliery, consisting of Messrs, W. Hobkirk and W. Telford, waited on Mr. Edward Potter at his residence, Marine House, Tynemouth, and presented to him a magnificent timeplece, from the establishment of Messrs. Reid and Sons, bearing the following inscription:—"Presented to Edward Potter, Esq., on his retirement from the management of Cramilington Colliery, as a token of the respect and esteem in which he has been held for a long series of years by the agents and workmen. May ist, 1868." At the same time a handsome and valuable silver cake-basket was presented to Mrs. Potter, bearing a suitable inscription.—Newcastle Daily Chronicle.

REPORT FROM THE FOREST OF DEAN.

MAY 6 .- It is a great relief to report that the tendency in the Coal MAY 6.—It is a great relief to report that the tendency in the Coal Trade is decidedly towards improvement, which we trust will continue to the end of the summer, when things may again be expected to return to their usual activity. It is wonderful, indeed, how houses spring up in and about Cinderford: progress in the building trade is every day becoming more manifest, and if the mineral resources of the district were fully developed by enterprising capitalists, no doubt the place would have its share of prosperity, and the increase of population continue.

the place would have its share of prosperity, and the increase of population continue.

The Hon. James K. Howard, Crown Gaveller of the Forest, has just intimated that it is his intention to grant a license to Thos. Constant, of Noxon Farm, as the owner of the Dark Hill Endeavour Colliery, to get certain barriers of coal lying between this and other collieries, and calls on all those who may consider themselves affected thereby to give notice of objection on or before the 20th day of May next.

The Great Western Deep Coal Company (Limited) has given notice that an extraordinary general meeting of shareholders will be held at the Red Lion Hotel, Pontefract, on May 28, that the final accounts of the liquidators may be laid before them in accordance with

counts of the liquidators may be laid before them, in accordance with the Companies Act, 1862, cap. 89, sec. 142. This company seems now to have determined to erect pumping machinery, and we see they have advertised for tenders for the erection of an engine-house, boiler seats, and chimney.

For some time past works have been in course of erection near White

Croft, for the purpose of manufacturing fuel from small coal. We hear that the proprietors of these works have taken up the patent process known as Barker's Patent, which proposes to make fuel from small cess known as Barker's Patent, which proposes to make fuel from small coal, mixed with mucilage made from farina, and obtained from potatoes; carbolic acid is also used in the manufacture, and it is said that the quantity of potatoes required to produce farina for a single factory of importance is very large indeed. One thing is in its favour as regards the Forest district, and that is the improbability that many such factories will be brought into existence; indeed, it is generally understood that the proprietors of the works in question have monopolised the exclusive right of using Barker's patent process in this district. Whatever good may result to them (and we trust it will not be small) time must determine, but the farina process is not thought to be of vast importance by many persons in this district. We hear on good authority that a party of mining men here have been experimenting for some months past on certain inexpensive compositions likely to form with coal a first-class fuel, and we further hear that their success has far exceeded their expectations in the results obtheir success has far exceeded their expectations in the results obtained, and they intend forthwith to secure their invention by patent

REPORT FROM SCOTLAND.

MAY 6.—We have had a sluggish market all the week in Pig-Iron, and prices have scarcely been moved. The shipments are also short, being only 11,355 tons for the week just closed, against 13,125 tons in the corresponding week last year. This makes the total shipments to date amount to 179,610 tons, while at the same period last year they reached 216,660 tons, being a deficiency of 37,050 tons on this year. On the 30th ult. there were in Connal and Co.'s stores 232,681 tons, last year the quantity was 267,744 tons. At Middlesborough there are in store 70,947 tons, last year there were 68,000 tons. The market opened after May-day with little doing, buyers offering 1d. a ton less money; yesterday only 500 tons reported at 52s, 6d. a month, and to-day matters were a little worse, holders having sold about 15,000 tons in warrants at 52s, 3d. down to 52s. 1d. cash; 52s, 4d. and 52s, 3d. a month; closing sellers, 52s. 14d.; buyers, 52s. cash. No. 1, g.m.b., 52s. 9d.; No. 3, 50s. 9d.; Coltness, 57s.; Gartsherrie, 56s.; Langloan, 54s. 6d.; Eglinton brands, 52s. The monthly average prices of pig-iron for the months of this year as compared with those of last year are—

Jan. Feb. March. April. MAY 6.—We have had a sluggish market all the week in Pig-Iron,

prices, stimulated by the keen competition of Staffordshire and Wales for any shipping lots offering. There is now a less tendency to con-ceal the fact that lower prices are being taken for nearly all kinds of finished iron, although quotations are nominally the same. and plate iron is now outruning consumption, and makers of these descriptions are able to take up specifications of merchant iron in

descriptions are able to take up specimensors.

In the Coal Trade there is a tendency to lower prices than those in the Coal Trade there is a tendency to lower prices than those we last quoted, even though these scarcely covered lordship and cutting. A writer in a local contemporary asserts that if something does the coal masters a number must shortly not come speedily to relieve the coalmasters a number must shortly take refuge in bankruptcy. Most of our coalowners are wealthy men,

and would willingly spend a portion of that wealth in saving their workmen from enduring the evils of starvation; but, while doing this, it is hard to be repaid by vituperation similar to that spoken by Delegate Smith, at the Motherwell Conference, a few days ago.

"No doubt, when the miners were in Union, through its persuasive influence coalmasters would be heard talking glibly of the benefits of short time and union; butslnee we gave up Union our experience of the last six months plainly proves that their old nature of avarietous cupidity and unscrupulous greed has returned with increased intensity. In several districts great numbers of men have been victimised and hunted with bloodhound-like pertinacity for daring to practise short time, or murmur against the manner in which we were now being treated."

Smith is a leading delegate, and a great man among our colliers, and this is the kind of seed he sows. If the "blind lead the blind" they must inevitably fall into the ditch together. The shipments of coal during the week past were 41,645 tons, against 39,400 tons same week last year, but the surplus was principally coastwise from Troon and Ayr, the northern ports being the chief foreign purchasers. Last week the minerals (650 acres) belonging to Spittal's Hospital, Stirling, were disposed of to our townsman, Mr. Adie; and the going colliery, with the tenant's right to the lease of the coal in the lands of Drunrosshall and Byres, Bathgate, sold, after a keen competition, for 575*l*., being 575*l*. above the upset price.

The Shipbuilding Trade continues active, the aggregate launches

during the past month consisting of 15 vessels, all classes, of 5875 tons.

FIRING A LARGE CHARGE OF GUNPOWDER.—On Saturday last a blast was successfully fired at Furnace Granite Quarries, on Lochynesde, a few miles from Inverary, on the principle of mining and rock-blasting introduced by Mr. William Sim in 1833. The mines and headings on this occasion were driven in a horizontal direction from the face of the quarry, commencing at a point about 40 ft. above the level of the quarry floor, and 80 ft. from the top. The first heading was driven inwards 46 ft., and a cross mine taken off from it to a distance of 41 ft., at the inner end of which a chamber was formed to receive 3 tons of gunpowder. The powder having been carefully deposited, the chamber and mines were herinetically sealed by means of stone rubble set in Roman cement, the wooden casement to protect the wires and fuse being carried through the building in its full line of length. The gunpowder having been ignited by means of a submarine fuse exploded without any sharp report, concession, or stones flying, as is usual in the ease of ordinary or small blasts, and displacing a mass of rock, computed at 30,000 tons. FIRING A LARGE CHARGE OF GUNPOWDER.—On Saturday last a

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

MAY 7.—Any improvement in the demand for Iron is of slight amount, and is only partially felt, for many makers complain of a great want of orders, in spite of the fact that so many works are now standing, owing to the failure of their proprietors. More puddlers have gone in since last week, and most of the principal works are have gone in since last week, and most of the principal works are now, at any rate, in partial operation. So far it appears that the men have not received any distribution of pay from the Union funds. The causes assigned for the delay are, first, a desire to see how much can be paid continuously; and, next, that a certain notice is necessary in order to withdraw funds from the bank. If it is in the Post-Office Savings' Bank, three days would suffice; in any ordinary bank money deposits would be paid on demand, unless there is some special arrangement for notice. The men still meet, and resolve not to yield, but if they continue to go in by driblets the strike must soon be over. A reduction of 10 per cent. is being made in the prices paid for making nails in several of the districts devoted to that manufacture, and it is said that a large reduction in the wages of the miners in the this said that a large reduction in the wages of the miners in the thick coal collieries is contemplated. The wages of the thin coal colliers were reduced about a month ago, but no such step has yet been taken in the Dudley district, where the 10-yard coal is got. Several years ago a reduction of wages amongst this class of men led to a most protracted strike, but the men had to yield. Another large body of miners left South Staffordshire on Monday, their des-tination being Lancashire. They state that so scarce has work been for some time in the district they are leaving that they have scarcely

The proposal of Mr. Wyndham for fixing the basis of the a ment of mines by statute is one of considerable importance. Unfortunately, progress with any such measures is very difficult. That
the whole question of assessing mines, railways, and various kinds
of property is in a state of chaos, involving great injustice, and
vast legal expenditure, there can be no doubt; but the House of
Commons seems to be getting more and more incapable of settling
anything. It refuses to let a small body decide on matters which can
never be properly dealt with by a large assembly; it is choked with
work, and the labour of carrying through the smallest practical reform is almost Herculeau. The arrear into which practical legislation has fallen is proved by the circumstance which appears in this
case, that no sooner is a limited proposal made than it at once appears that, instead of a partial amendment, a complete change is
needed; the smaller reform is put aside that the larger may be effected, and this cannot be done, so delay follows delay, until patience
is exhausted and effort abandoned. Unless the House of Commons
can learn to delegate matters of detail, and content itself with affirming general principles of broad lines of policy, we are threatened with ment of mines by statute is one of considerable importance. ing general principles of broad lines of policy, we are threatened with a dead-lock in national affairs. The whole system of levying local rates calls for revision, and it should be complete, and the result permanent. Every alteration of the incidence of taxation, local or permanent. Every alteration of the incidence of taxation, local or imperial, inflicts much individual injustice in cases where expenditure has been incurred and arrangements made on the basis of the existing amount of liability to local taxation. As an instance of the absence of any principle in assessment, take the long disputes about railways. What can be more anomalous than to take the profits as a basis? Suppose the consulting-room of a great physician, the chambers of a successful barrister, or the premises of a banking company, were assessed on the basis of the profits realised? And why not as much as the earnings of a railway? But when different parishes have to form separate and independent estimates of the value of sections of a line, the anomaly becomes still more glaring, and the region of speculation over which fluent tongues may expatiste becomes boundless. It would surely be possible to fix on some just and plain principle by which the assessable value of mines and railways could be decided, if half-a-dozen persons of experience and shrewdness were to set themselves to the task. The cost of litigation appeals against assessments in this county has been lately enormous, and none can say that anything is established as a basis for and none can say that anything is established as a basis for

On Friday a man, named John Price, was killed at the Speedwell On Friday a man, named John Friee, was killed at the Speedwell Collery, Longton, belonging to Messrs. Bridgwood, in a manner which shows how little precaution is usually taken against accidents in mines. He and another man went down the shaft in the winding tacklers to the level of a seam called the Moss Coal. The deceased got out, and stood on the landing, and whilst the other went to a bob to fetch a candle the poor fellow fell down the shaft, a depth of 80 yards, and was killed. The scaffold on which he stood was 3 ft. 6 in. wide, the shaft was 9 ft. wide, so that there was a large space uncovered, and there was no fence of any kind, so that the deceased in the dark fell over the edge from some cause or other. Several witnesses at the inquest said they every knew of a fonce being out in undersand circumstances, but Mr. fell over the edge from some cause or other. Several witnesses at the inquest and they never knew of a fence being put up under such circumstances, but Mr. Wynne, the inspector, thought such a precaution was very necessary, and people who imagine themselves standing in the dark on a narrow platform, a slip or step from which would be fatal, will, probably, share the inspector's view.

At the Bilston Petty Sessions, on Tuesday, James Mason, an engineman at Messra, Sparrow's collery, who had drawn a man over the pulley, causing him serious injury, was fined 40s., and costs.

At the meeting of the Institution of Mechanical Engineers, at Birmingham, Mr. John Robinson, of Rochale, read a paper, giving a description of a dove-tailing mestic.

At the meeting of the Institution of Mechanical Engineers, at Birmingham, Mr. John Robinson, of Rochdale, read a paper, giving a description of a dove-talling machine, invented by Mr. T. S. Armstrong, of New York, which was shown at work at the recent Paris Exhibition; and it is constructed so as to cut out the dove-tall joints in woodwork by means of the continuous action of compound circular saws of peculiar form, which finish the joints completely without the use of any chisels or cutters. The same machine cuts both the pins and the holes of the dove-talls in succession, by a simple change of adjustment, so that their pitch and dimensions correspond exactly, and make a correct joint in every case. Such a machine is a perfect triumph of ingenuity.

Another paper was "On an Improved Cupola for Iron Foundries," by Mr. J. Elchborn, of London. In this cupola, which is the invention of Mr. Henry Krigar, of Hanover, the objects aimed at are to concentrate the heat in the lower part of the furnace, and render the action uniform throughout the operation of melting, and to prevent the blast from injuring the heated metal by exidising it. The vertical shaft of the cupola, which is made rectangular in form, opens into a lower chamber, the bottom of which forms the heatth to receive the melted metal. Round the bottom of the shaft runs an air-passage, into which the blast is delivered from the air-mair; and the blast entering through this passage cools the brickwork of the cupola, and becomes heated itself; it then passes down into the melting chamber of the cupola, through two long slots in the roof, one at the front and the other at the back, extending the whole breadth of the hearth. The metal obtained in this cupola is found to be very fluid, more so than in an ordinary cupola, while retaining its softness; and the consumption of coke is from 1½ to 1½ cwt. per ton of iron melted, according the magnitude of the charge, the loss of metal in melting being only from 2½ to

3½ per cent. The annual meeting of the Institution in the ensuing summer is to be held at Leeds, on July 28 and following days, during the time of the Art Schibliton in Leeds.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

MAY 7 .- Business remains without much alteration in the North Derbyshire district, the demand for merchant iron generally being far from active. Most of the ironworks are kept moderately going, but a considerable proportion of what is made has to go into stock. At Staveley there appears to be more doing than in almost any other part of the district. Most of the furnaces continue in blast; those belonging to the Oakesthorpe Company, however, are still quiet, without any signs of being lighted. This is the more to be regretted, as the works are in a very good situation, and quite close to the railway station. There is no material improvement in the demand for house and other qualities of cool and as a rule short time is the way station. There is no material improvement in the demand for house and other qualities of coal, and, as a rule, short time is the order at most of the collieries. The tonnage being forwarded to London still continues low, more particularly from Clay Cross, from London still continues low, more particularly from Clay Cross, from which in the April of last year close upon 1000 tons a day were sent. To the Midland Counties the business doing is only of a moderate character, and it is not likely to improve much for some time to come. From the Burton-on-Trent district the men are quietly settling down, and although the trade is far from what may be termed active, still the pits are kept tolerably well going, considering the long time many of them were kept nearly idle, and the lost custom is gradually being recovered. Still notwithstanding the quietness which has ghaves. recovered. Still, notwithstanding the quietness which has charac-terised the coal trade, several pits are being opened out, one large field of some hundreds of acres in particular in the neighbourhood

terised the coal trade, several pits are being opened out, one large field of some hundreds of acres in particular in the neighbourhood of the Doe Hill Station, which gives promise of turning out successful. There is very little alteration in the business doing in Sheffield and the district around it. Some of the large ironworks manage to keep their men tolerably well employed, but as a rule most branches of the iron trade are very quiet indeed. At Milton and Elsecar, however, there appears to be no falling off whatever, almost every department, including the rail and plate mills, being busy. In Coal there has been a little more doing during the week for Lancashire, owing to the dispute there; but as the men have now resumed work, but few orders may be expected there, further than from those places which have generally been supplied from South Yorkshire. To London there is no improvement in the tonnage being forwarded from the district, and it is not at all unlikely that, as the season advances, there will be a still greater decrease. This, to some extent, is attributed to the high charges for railway carriage, which by the Great Northern is said to be about 99. 3d. per ton in company's wagons, and about 22. per ton more than slmilar coal is taken from Derbyshire. The efforts of coalmasters to obtain a reduction of the rate has so far been unsuccessful, as the company have given no intimation that they are prepared to accede to the memorial presented to the directors about a month ago. The effect will be that the company will be considerable losers by the loss of traffic in minerals from South Yorkshire, and it is very questionable whether its receipts from that source in the present year will come up to those of 1867. Those facts, one would have thought, would have induced an enquiry as to the causeof the falling off, but such appears not to have been the case. In steam coal there is a moderate business being done to Grimsby, and which may naturally be expected to increase in the course of a month or two. To H

There has been a good deal of excitement in the Barnsley district during the early part of the week, owing to the recovery of four bodies from the Oaks Colliery on Saturday last, and their burial on Monday and Tucsday. They were found rather unexpectedly in the back travelling road, with their heads down hill, as if they had been blown backwards by the force of the cold-blast succeeding the explosion. It is not expected that many more bodies will be got for some time, seeing that there is a wast deal to be done in clearing the workings. It is said that the water for about 150 yards above the north and south dip levels extends to the dip headings, so that the north and south dip levels will be roofed. Slaking operations are being proceeded with at the new pit at Ardsley, the water having been got out, so that everything in that direction is proceeding satisfactorily.

OPENING OF THE KILLAMARSH BRANCH OF THE MIDLAND RAIL-WAY.—This branch line, which was sanctioned two years ago by Parliament, has been opened for traffic. It commences about a mile and a half north of the Eckington Station, and is made for the purpose of connecting the Norwood Colliery with the main line. This coiliery, which belongs to the Sheepbridge Coal and Iron Company, is working the "top hard" or Staveley bed of coal, at a depth of 159 yards. There are two shafts of 13 ft. diameter, cased with Iron tubbing to keep back the water, whereby the seam of coal is kept dry. The winding-onglues are of 150 horse power, and engines are being placed underground for the purpose of facilitating the conveyance of coal to the bottom of the shafts. The machinery and appliances of the colliery are capable of producing 1000 tons of coal daily. It is probable this branch will be carried forward to join the Manchester, Sheffield, and Lincolnshire Railway, at Kiveton Park, thus giving access for the coal of the Norwood Colliery and the Kiveton Park Colliery, lately established on the Duke of Leeds' estate, to the Midland Railway and the Manchester, Sheffield, and Lincolnshire Railway also.—Derby Reporter. OPENING OF THE KILLAMARSH BRANCH OF THE MIDLAND RAIL

REPORT FROM MONMOUTH AND SOUTH WALES.

MAY 7.—It appears to be a matter of great difficulty, if not impossibility, to shake off the depression which has characterised the Iron Trade for so many months, so as to enable it to assume a position anything like satisfactory. Three or four weeks ago a better feeling began to manifest itself in the trade of the district, but this has been checked to some extent in consequence of the dispute with the men in other iron-producing districts, both makers and buyers not being particularly auxious to enter into any new engagements until the wages question has been definitely settled. The orders coming in on wages question has been definitely settled. The orders coming in on home account are for comparatively small quantities, and only sufficient to meet actual necessities. It is, however, well known that the requirements of the home railway companies are large; and this, to some extent, tends to strengthen confidence that heavier orders will shortly find their way into the market. This session no fewer than 20 railway Bills have been withdrawn or disallowed, and the length of the new lines proposed to be constructed by these bills was 37½ miles. There are, however, 87 Bills remaining for the consideration of Parliament, but this is an exceedingly small number as compared with previous years. The larger portion of the remaining Bills will, no doubt, be sanctioned by Parliament, and the orders for materials required in their construction when given out, added to the requirements for re-laying permanent ways, will cause a greater materials required in their construction when given out, added to the requirements for re-laying permanent ways, will cause a greater amount of activity to prevail in the home trade than is now experienced. The exports to the United States are at present considerable, while enquiries from South America are limited. There is an increased demand from the British colonies, and ships are wanted at Cardiff and Newport to several ports. Clearances have been made to the Russian ports, but for no very large quantities, and, as yet, it is too early to speak positively as to the future; but if present anticipations are realised the exports to the Muscovite empire this season will be equal, if not greater, than those of last year, notwithstanding the formidable competition with Belgian makers, who cut prices as finely as they can possibly do it to enable them to secure as many of the Russian orders as are to be obtained. The principal enquiries for pigs are for the best brands, chiefly used in the manufacture of tin-plates, but there is not so much business doing as there was a few tin-plates, but there is not so much business doing as there was a few weeks ago. It was generally believed that the reduction in wages had been accepted at all the ironworks in South Wales, but the opposition offered this week has not only weakened the supposition, but at Dowlais it assumed a very serious character. Something like 10,000 persons are employed in the ironworks there, and the first pay since the reduction took place on Saturday, when several of the ballers and others complained at having the reduction brought home so practically to themselves. Fears were then entertained that the dissatisfied ones would resist the reduction, and on Monday morning the ballers wrote underneath the orders on their slates that unles the old rate of wages was paid they should discontinue work. The manager (Mr. Menelaus), with great coolness and determination, recalled the order to light up, and ordered the gates to be closed at once. Shortly after the other classes of workmen began to arrive, and were greatly astonished on finding the gates closed against them. Some thousands walked about the streets the whole of the day, and all labour ceased. Fortunately, however, the closing was only tem-porary, as operations were resumed on the following morning, on the arrangement of a month's notice. It is difficult to say whether the men will resist working on the reduction after the expiration of the month's notice; but a strike as trade is at present would be a most idiotic act, the hands being well aware that for some time past iron-masters have derived no profit from their works, which in some cases have been kept going at a positive loss. The Aberdare Works, belonging to Messrs. Fothergill and Co., are now in course of stoppage, in consequence of some few of the hands having been on strike for several weeks past, and on their account hundreds of persons have been thrown out of employment. Tin-plate makers have several orders on their books, and scarcely any stocks on hand. For Steam Coal there is an average demand from the East and

continental markets, and from the French markets enquiries are steadily increasing. The closing of the war in Abyssinia will, no doubt, cause a falling off in the demand for the Mail Packet stations, but this will not have any material effect on the exports, as for some weeks past the Mail Packet Companies have been gradually reducing stocks at their coaling depots. The falling off, if any, in the demand for the East will be met by the additional quantity that will be required in Her Majesty's ships of war, the Lords of the Admiraty having again decided that none other but Welsh smokeless steam coal shall be used in Her Majesty's steam-ships, which not only places South Wales in the high and proud position it formerly held, but clearly sets forth the superiority of the Welsh smokeless steam coal for all purposes of steam navigation. Respecting the strike, the dispute between masters and men is no nearer adjustment than it was three months ago. At Aberearne a number of the men who were on strike have left the neighbourhood to seek work clsewhere, but about 40 of the old hands have gone in on the masters' terms, and it is gastness who have a little clear-sightedness can now discover that they have acted most unwlsely, and have been misled by bad and malicious advisers, having done no good, but of mischief more than they will ever be able to repair. In the castern valleys of Mommoutshiire the men who gave notice a month ago to leave work unless the old rate of wages were paid have come to an arrangement with the masters; therefore, the evil effects of a strike will not be experienced in that neighbourhood. At the S-uth Wales Colliery the Bilston men and women continue at work, notwithstanding every inducement has been held outby the turnouts, who begin to see that there are plenty of men to be got on the terms they themselves refuse. In Glamorganshire the hands at two or three pits are still out, but new hands are being introduced, and paid a weekly wage with which they express themselves perfectly satisfied; and continental markets, and from the French markets enquiries are

The Clydach Ironworks (which have been at a standstill for about The Clydach Promorks (which have been at a stands in for about eighteen months), it is rumoured, will be started beforelong by Mr. John Jayne, one of the directors and a large shareholder in the old company. It is to be hoped the rumour will prove correct, as it would confer a great benefit upon the neighbourhood, as the operatives, the larger portion being natives, have undergone many privations and a vast amount of suffering since the works were stopped.

The first turf of the new tinworks, to be erected opposite the old Garth furnaces, Maesteg, was cut on Thursday, and the works are to completed as soon as possible.

The first turf of the new tinworks, to be erected opposite the old Garth furnaces, Maesteg, was cut on Thursday, and the works are to completed as soon as possible.

On Saturday evening a handsome gold watch and chain were presented to Mr. Caull, the late manager of the Swansea Iron and Tin-Plate Works, Cwmbwrla, on the occasion of his leaving for a post he has undertaken in the North of England. Several excellent speeches were made by the employees and others, all of whom spoke in the highest terms of the able manner in which Mr. Caull had discharged the duties of manager at the above-named establishment. The pleasures of the evening were considerably heightened by the able manner in which the Cwmbwrla brass band performed a selection of favourite airs, the proceedings being brought to a close at a very seasonable hour.

The Newport Dock Company half-yearly meeting was held this day,—Mr. Samuel Homfray in the chair. The directors' report recommended that it, per share (in amount 15001), the last balf-year's interest on the first preferential shares, Act 1844, be paid on May 30, and that a dividend, amounting less income tax) to 37684. 1s., for eight months ending Dec. 31, 1852. On the second preferential shares, Act 1854, be declared payable on the said May 30, a balance of 30624. 2s. 10d., then remaining to be carried to the next half-year, not-withstanding the depression in trade consequent on the colliers' strike in the district. During the six months 276,488 tons of coal had been shipped, against 219,894 tons in the corresponding period of last year; 54,5594 tons fron gone the corresponding six months of 1867. The report was adopted, and the retiring directors were re-detected, and Mr. George B. Gething was unanimously elected in the room of Major Stretton, deceased.

The arrivals at Swansea include—The Celicia, from Cherbourg, with 130 tons of iron ore, for R. Crawshay; Clementine, from Redon, with 50 tons of iron ore, for R. Watters; Elise, from Sumplas, with 150 tons of zinc ore, to order; Alina, from M

THE INSTITUTION OF CIVIL ENGINEERS.—At the ordinary general meeting, on Tuesday, May 5 (Mr. Charles Hutton Gregory, President, in the chair), 22 candidates were duly elected, including five Members—Mr. William Bage, Westminster; Mr. Francis Brady, resident engineer, South-Eastern Railway; Mr. Maximilian Hjortsberg, Engineer-in-Chief of the Chicago, Burlington, and Quincy Railroad and Extensions, Chicago, U.S.; Mr. George William Vivian, Executive Engineer, P.W.D., Bengal; and Mr. J., Wood, engineer on the Cockermouth, Keswick, and Penrith Railway; and 17 Associates—Mr. Charles Dallas Alexander, B.A., P.W.D., Calcutta; Le Chovalier Zosimo Barroso, Céara, Brazli; Mr. Edwin Bidder, Delhi Railway; Mr. Peter Brotherhood, Clerkenwell; Mr. Joao Nerl Ferreira, Rio de Janeiro; Mr. Thomas Gibson, Westminster; Mr. James Hartley, M.P., Sunderland; Mr. Edward John Jones, late of the Ceylon Railway; Mr. Henry Augustin Ornano Mackenzle, Bloomsbury; Mr. John Milroy, Edinburgh; Lieutenant Colin Campbell Scott Moncrieff, R.E., P.W.D., Bengal; Lieutenant Parrick Montgomeric, late in the P. W.D. of the Government of India; Mr. Walter Nellson, Glasgow; Mr. Samuel Barton Nowton, late of the Ceylon Railway; Mr. Richard Proctor-Sims, engineer to the Mazajon Land and Reclamation Company, Bombay; Mr. Horace James Bydon, Highbury New Park; and Mr. William Joshua Trehearne, surveyor to the Chiswick Improvement Commissioners. It was also announced that the Council, acting under the provisions of section 4 of the bye-laws, had, since the last announcement, admitted as Students of the Institution—Messrs. John Savery Carey, Humpbrey Honchman, and John Arthur Owen.

SOCIETY OF ENGINEERS.—At the meeting of members, held on THE INSTITUTION OF CIVIL ENGINEERS.—At the ordinary general

Carey, Humphrey Henchman, and John Arthur Owen.

SOCIETY OF ENGINEERS.—At the meeting of members, held on Monday (Mr. Baidwin Latham, President, in the chair), it was unaulmously resolved—"That the thanks of the society be conveyed to Mr. Whitworth for his munificent endowment of 30 free scholarships for the engineering profession." The following candidates for election were duly elected as *Members:—Messrs, E. D. Latham, borousle engineer, Bideford, Devon; G. B. Ritchie, resident engineer, London and North-Western Railway, Leighton Buzzard. As *Associate—Mr. R. J. Cheeswright, clerk to the Croydon Board of Health, Town Hail, Croydon. It was announced that the council had made arrangements for the members to visit various public works during the coming vacation.

NEW CURPLE A FOR JENN FOUNDERS.—At the Institution of Members and the council had made arrangements for the members to visit various public works during the coming vacation.

don. It was announced that the council had made arrangements for the members to visit various public works during the coming vacation.

NEW CUPOLA FOR IRON FOUNDRIES.—At the Institution of Mechanical Engineers, Mr. J. Eichhorn read a paper descriptive of an improved cupola, the invention of Mr. Henry Krigar, of Hanover. The objects aimed at are to concentrate the heat in the lower part of the furnace, and render the action uniform throughout the operation of melting, and to prevent the blast from injuring the heated metal by oxidising it. The vertical shaft of the cupola, which is made rectangular in form, opens into a lower chamber, the bottom of which forms the hearth to receive the melted metal. Round the bottom of the shaft runs an air passage, into which the blast is delivered from the air main; and the blast entering through this passage cools the brickwork of the cupola, and becomes heated itself; it then passes down into the melting chamber of the cupola through two long slots in the roof, one at the front and the other at the cupola through two long slots in the roof, one at the front and the other at the clay and sand on the inside; and a smaller door is placed at the back, to facilitate the drawling of the furnace after each beat. The cupola is charged from the top of the vertical shaft in alternate layers of coke and Iron as usual, a filling of coke being first put in for starting, before closing up the front door. In the working of the cupola, the coke failing into the metting chamber from the vertical shaft stands there in a heap, upon which the blast rushe through the two transverse slots in the roof; and the heat from the burning fuel being radiated into the air passage, the blast becomes prepared for combining rapidly with the carbon of the fuel before it has an opportunity of coming in contact with ated into the air passage, the blast becomes prepared for combining rapidly with the carbon of the fuel before it has an opportunity of coming in contact with the melting metal and wasting it by oxidation; and the action of the blast is finished at a considerably lower level than in ordinary cupolas. The metal obtained in this cupola is found to be very fiuld, more so than in an ordinary cupola, while retaining its softness; and the consumption of coke is from 1½ to 1½ cwt. per ton of iron melted, according to the magnitude of the charge, the loss of metal in melting being only from 2½ to 3½ per cent.

MARVELLOUS EXTRICATION FROM A COAL MINE.—The Wrexham Advertiser gives some interesting particulars of the eight days' entombment of a man and boy in the Afoneitha Colliery, near Ruabon. The fail of earth occurred on the morning of April 23, and from that time till an early hour on May I all efforts to reach the unfortunate fellows, who had been working at a depth of 80 yards, were fruitless. At last they were got at, more dead than alive, and, after being treated by experienced surgeons, were drawn to the surface. The boy, Samuel Lewis, wished to waik house, but by direction of Dr. Roberts, of Ruabon, he was enveloped in blankets and carried. On the way he asked what day it was, and on boing told Friday, he said he "thought it was Sanday (i.e. the 26th), he was so hungry." His companion, a collier, named Daniel Jones, was conveyed home in a carriage. Owing to their reduced state—they had subsisted during their confinement on water alone—the only nourishment given to them for several hours was water gruel, administered at short-intervals. The lad has since been able to give some account of the strange adventure. For a time he and Jones heard the movements for their extrication going on above. After a while they started to wander through the pit, in the hope of discovering some way of egress or means of supporting iffe. At one time they were separated by another init of earth, and had to scratch their way to each other, the marks of which painful operation are still visible on the poor boy's fingers. They walked and crept through every known and unknown part of the working. When seized and crept through every known and unknown part of the working. When seized and crept through every known and prayed; when exhausted with fatigue they lay down in each other's arms, with a little bay and straw for their blanket, and a horse collar for their pillow. Neither of them appear to remember much of what took place after Saturday, and it is thought that subsequent to this day they must have been either asleep or unconscious. MARVELLOUS EXTRICATION FROM A COAL MINE.—The Wrexham

Projected New Companies.

Company.	Capital.	Shares.	. E:	ach.
West of England Iron Ore	€ 20,000	 2,000		£10
Falcon Cliff Mining	30,000	 6,000		5
Manchester Tradesmens' Loan and Discount	10,000	 1,000		10
Waldegrave Lead Smelting	8,192	 4,096		2
Bewdley Gas Light and Coke	2,400	 120		20
Aylesbury Dairy		2,000		
Crown Candle and General Co-Operative	50,000	 10,000		
Cooper and Company		400		
Atlas Advance and Investment		1,000		
Croule Market		240		5
New Brunswick Cannel Coal		12,500		
Oswaldtwistle Gas	6,000			
British Lion Newspaper	2,000	 2,000		
Portland Waterworks	5,000			
Thrapstone Market	1,000	 200		5
Swindon General Omnibus and Conveyance and Parcels Delivery	500	 1,000	••••	10s

shall, so far as applicable, be deemed to be the regulations of the company.

FALCON CLIFF MINING COMPANY, 30,0001, in 6000 shares, of 51.

cach.—The objects for which this company is established are the carrying on of mining operations under certain lands in the parish of Rushen, Isle of Man, or elsewhere; and also for carrying on such other business connected with mining as the company may think proper, and the doing, &c. The Memorandum is signed by—H. KILSALLA SPINALL, Devonshire-place, Claighton, Chester, brewer, 100; H. C. Beloe, 16, Falkuer-square, Liverpool, Lancaster, gent., 100; JACOB G, BROWN, Herlicheld, Allorton, Lancaster, shipowner, 100; W. R. Chitchiller, Salwick Hall, near Preston, Lancaster, copper smelter, 100; G. DAWES, Milton Ironworks, near Barnsley, York, ironmaster, 200; T. DUNCAN, 44, West Derbystreet, Liverpool, Lancaster, vill engineer, 25; J. S. GARDNER, Bellesise Prince's-park, Liverpool, Lancaster, vine merchant, 25. The directors shall have power to purchase on behalf of the company, for the sum of 60001 cash, and 800 fully paid-up shares in the company, two leases, dated Dec. 31, 1866, and granted by the Hon. J. K. HOWARD, the Commissioner of Her Majesty's Woods, Forests, and Land Reserves, of the minerals and mineral rights in and under certain lands, comprising together 985 acres, or thereabouts, situate in the parish of Rushen, in the Isle of Man, with all the powers and rights, and subject to all the conditions and agreements on the lesses part in the said lease respectively contained. No person shall hold less than five shares, nor shall any shares be divisable into fractional parts. Not more than 5000 shares shall be issued in the first instance, and shall be allotted to such persons as the directors shall think fit, 800 of such shares being allotted in accordance with the first article, and being taken and considered as fully paid-up shares in the company. The company may from time to time, by a resolution passed at an extraordinary meeting, increase the existing capital to FALCON CLIFF MINING COMPANY, 30,0001, in 6000 shares, of 51.

which all calls shall have been paid. The future remuneration of the directors, and their remuneration for services performed previously to the first general meeting, shall be determined by the company in general meeting.

WEST OF ENGLAND IRON ORE COMPANY, 20,000L, in 2000 shares, of 10L cach.—The objects for which this company is established are the purchasing or taking upon lease, or by way of mining set or license, certain mine and mineral lands situate at Girt Down and Holstow Down. Combmartin, Devon, and also any other mines and mineral land in the West of England. The purchasing, erection, or taking upon lease buildings and fixed machinerry works, quarries, pits, minerals, and lands, and also engines, machinery, plant, and conveniences, for the purpose of carrying out mining operations in the West of England, or as a collateral object and in connection with such mines and mineral lands elsewhere in England. The working, leasing, mortgaging, and selling of such mines, lands, buildings, quarries, pits, machinery, and other works, and the ore and minerals thereof, and the smelting or rendering merchantable any ores, minerals, and earths to be obtained from such mines and mineral lands. The making and constructing of wharves, piers, tramroads, and other conveniences for the salipping or distribution of ores, minerals, metals, or other commodities to be obtained as aforesald, and the making of roads and other approaches to the salid mines, quarries, pits, and other works. The acquisition of any patents or licenses to use any improvement in the working of mines or the smelting and rendering merchantable the ores therefrom. The purchasing, chartering, freighting, hiring, and otherwise providing or using vessels for the transport of ores and minerals, etc. The Memorandum is signed by—W. B. HAWKINS, 2, Suffolk-lane, E.C., merchant, 25; J. HENDREY, and J. H. Ylctoria-street, Westminster, 25; S. HAWKINS, Crosby Cottage, Reigate, iron merchant, 10; E. K. BLYTH, 10, St. Swithin's-lane, E.C., solicitor, 10; G. BUSH, C.

NEW BRUNSWICK CANNEL COAL COMPANY, 125,000., in 12,500 shares of 10t. each.—The objects are the acquisition and working of freehold and leasehold estates, mines, seams of cannel and other coal, and minerals, situate at Turtic Creek and Baltimore, in the parish of Hillsborough, Albert county, New Brunswick, together with the woods, buildings, machinery, water rights, and all other works and privileges connected therewith; the acquiring of adjacent property; the manufacture and sale of minerals, oil, or any other substance or material which form any part of the produce of the estates; the selling, leasing, or letting of such freehold or leasehold estates, or any part thereof, or the produce thereof; the establishing and regulating of agencies; the doing of all, &c. The Memorandum is signed by—HORATIO R. PYM, 83, 85, George's-road, S.W., solicitor, 1; JOHN FREDERIO REVENS, 21, Elgin-crescent, Notting, Individuals, 1; HENRY THACKERAY, 6, Victoria-street, Westminster, late lleutenant in Her Majesty's army, 1; PRESTON DAYIES, 6, Victoria-street, etc. minster, surveyor, 1; JOHN REID, 6, Victoria-street, Westminster, late solicitor, 1; GEORGE A. SPRAGGE, 19, Russell-street, Battersea, draughtsman, 1; FRED, JULIAN PAGE, 3, Adelphi-terrace, Strand, solicitor, 1; C. EDWARD PRICHARD, 29, Richmond-road, Bayswater, 1. The number of directors shall be not more than nine nor less than three. The remuneration of such of the directors shall be at the rate of 500, a-year from the time of the registration of the company; and for every year for which the dividend paid on the paid-up capital is 10, per cont., the directors shall have an additional remuneration of 300, and an additional 100, for every additional 101, per cent. dividend paid on the paid-up capital. The remuneration is not an additional 100, for every year flow an additional incommentation of 300, and an additional 100, for every additional 101, per cent. dividend paid on the paid-up capital. The remuneration is not an additional 100, for every year shall be appropriat NEW BRUNSWICK CANNEL COAL COMPANY, 125,0001., in 12,500

It has formation of the company, and preliminary thereto and consequent thereon.

LA MANCHA IRRIGATION AND LAND COMPANY, 1,000,000Z, in
50,000 shares of 20L each.—The objects for which this company is established are
to acquire and hold the several properties, interests, rights, and privileges belonging to the Association, or Empresa, which was constituted and established
under the style and designation of Lopez and Eldredge by public deed at Madrid,
Spain, executed on May 16, 1867, before the Notary Public, Don Francisco
Giurreno y Brea, between Don Islodo Lopez, Don Juan Bantisla Alonzo,
James Eddredge in Choratto J. Perrey, John L. O'Sullivan, and John D.
Barry, C.E., for the main object of the application of the waters of the Lagunas

de Ruidera to irrigation, and to apply and utilise incidentally such properties, interests, rights, and privileges in such modes as may be found most advantageous and appropriate to the same, which aforesaid public deed was duly inscribed in the Register of Property of Alcazar de San Juan on Feb. 21, 1868. To acquire and hold lands within the zones of irrigation; to plant mulberry or other trees along the banks of the water-courses and on the lands of the company, and to turn the same to use and profit, whether by the sale of the products, or by the conversion of the leaves into silk; to improve and develope the agriculture of the district by the introduction of improved implements and methods; the preparation and establishments of dep6ts of manure, the propagation of instruction, and the construction of tramways, or other roads, &c. The first directors of the company shall be—Lord CLAUDE HAMILTON, M. P., and WILLIAM HOPE, V.C. (with power on their part to appoint two other directors two more resident in England and two more resident in England and two more resident in England and two more resident in Spain; and such additional directors, not exceeding two more resident in England and two more resident in Spain; as steey may appoint, so as not to exceed the total number of il. The Memorandum is signed by—CLAUDE HAMILTON, M. P., 18, Eaton-square, London, 1: JUAN BANTISTA ALONZO, Abogado, Madrid, 1; SIDORO LOFEZ Y VINAS, Abogado, Madrid, 1; JOHN D. BARRY, C.E., Madrid, 1; J. L. O'SULLIVAN, gentleman, 8, Park-place, Clarence-gate, Regent's-park, 1; JAMES ELDREDGE, gentleman, Portland Hotel, Portland-street, 1; WM. HOPE, Esq., V.C., Parsloes, Barking, 1.

Contract for Coals for Malta.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE.

THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kingtone o'clock, they will be READY to TREAT with such persons as may be WILLING to CONTRACT for SUPPLYING and DELIVERING into Store at Her Majesty's Dockyard at Malta,

TWELVE THOUSAND TONS OF SMOKELESS SOUTH WALES COALS.

TWELVE THOUSAND TONS OF SMOKELESS SOUTH WALES COALS, Fit for the service of Her Majesty's steamships and vessels.

A form of the tender and conditions of contract may be seen in the lobby of the Storekeeper-General's Department, Admiralty, Somerset House. No tender will be received after Two o'clock on the day of treaty, nor will am be noticed unless the party attends, or an agent for him duly authorised in writing.

Every tender must be addressed to the Secretary of the Admiralty, and bear in the left-hand corner the words "Tender for Coals for Malta," and must also be delivered at the Department of the Storekeeper-General, Admiralty, Somerset House, accompanied by a letter signed by two responsible persons, engaging to become bound with the person tendering in the sum of £25 per cent. on the value for the due performance of the contract.

By order,

Registrar of Contracts and Public Securities.

Contract Department, Admiralty, Somerset House, April 28, 1868.

Contract for Coals for Trincomalee.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE. THE COMMISSIONERS for Executing the dom of Great Britain and Ireland, do hereby give no o'clock, they will be READY to TREAT with such persons as may be WILLING to CONTRACT for SUPPLYING and DELIVERING into store at Her Majesty's Naval Yard at Trincomalee,

TWELVE HUNDRED TONS OF SMOKELESS SOUTH WALES COALS

TWELVE HUNDRED TONS OF SMOKELESS SOUTH WALES COALS, Fit for the service of Her Majesty's steam-ships and vessels.

The coals are to be shipped by the 30th June, 1868.

A form of the tender and conditions of contract may be seen in the lobby of the Storekeeper-General's Department, Admiralty, Somerset House. No tender will be received after Two o'clock on the day of treaty, nor will any be noticed unless the party attends, or an agent for him duly authorised in writing.

Every tender must be addressed to the Secretary of the Admiralty, and bear in the left-hand corner the words' Tender for Coals for Trincomalee, and must also be delivered at the Department of the Storekeeper-General, Admiralty, Somerset House, accompanied by a letter signed by two responsible persons, engaging to become bound with the person tendering in the sum of 425 per cent, on the value for the due performance of the contract.

By order, ANTONIO BRADY, Registrar of Contracts and Public Securities Contract Department, Admiralty, Somerset House, April 27, 1868.

Contracts for Fresh Ox Beef.

CONTRACT DEPARTMENT, ADMIRALTY, SOMERSET HOUSE. THE COMMISSIONERS for Executing the Office of Lord High Admiral of the United Kingdom of Great Britain and Ireland, do hereby give no o'clock at noon, they will be READY to TREAT with such persons as may be WILLING to CONTRACT for SUPPLYING (under separate contracts) all such

quantities of FRESH OX BEEF
As may be demanded for the use of Her Majesty's Ships and Vessels at the following places, from the 1st July to the 31st December, 1868, both days included, viz.:—

Ramsgate
Scilly
Southampton
Swansea
Torquay
Weymouth
Wivenhoe
Yarmouth (North)

ENGLAND, &c. Hull, Hawke Roads, and in the Humber Jersey and Guernsey Littlehampton Liverpool London Bridge to Woolwich, Inclusive Lymineton Security School Security Sec Berwick Cowes
Dartmouth
Deal, and
Downs
Dover
Exmouth
Falmouth
Fleetwood
Fowey
Gravesend
Greenhithe
Harwich Lymington Milford Haven, Pem-broke, and Pater Netley Newhaven North Shields Penzance SCOTLAND.

Greenock Leith, Leith Roads, and Frith of Forth Aberdeen IRELAND. Mill Cove (Berehaven) Queenstown and Kinsale Rathmullen Valentia

Galway
Kenmare
Kilrush
Killibegs
Kingstown and Dublin
Lough Foyle Bantry Belfast Buncrana (Lough Swilly) Castletownsend Crookhaven Foynes

Crookhaven Kingstöwn and Dublin Waterford Foynes
N.B.—The contractors are to supply good, fat, well-fed Ox Beef, as no Heifer Meat will be admitted.
The Lords Commissioners of the Admiralty reserve to themselves an unlimited power of selection in accepting the tenders.
Farticular attention is called to the revised conditions of the Sheerness contract, which is to include supplies to all ships and vessels between Chatham and the Great Nore, both inclusive; also the Naval Barracks at Sheerness.
Parties tendering for Portsmouth, Plymouth, and Sheerness, are to specify in their tenders a rate per 100 lbs. for live exen, delivered in the usual manner and also a rate per 100 lbs. for live exen, delivered in the usual manner and also a rate per 100 lbs. for live exen, during any period of the contract; and no attention will be paid to any offers not so made.
Separate tenders must be made for each port, and at a rate per 100 lbs., and no attention will be paid to any offers not so made.
Separate tenders must be made for each port, and at a rate per 100 lbs., and no attention will be paid to any offers not so made.

The cattle for Falmouth to be slaughtered on the spot, and the cattle for Portland to be slaughtered not farther from that port than Weymouth; the contractors for Portland and Dartmouth are also to deliver the meat on board H. M. ships and vessels.

The contractor for Gravescend is to be resident there.

ships and vessels.

The contractor for Gravesend is to be resident there.

The contractor for Portland and Weymouth is to reside at Weymouth.

The contractor for Portland and Weymouth is to reside at Weymouth.

The contractor for any of the other places is to reside on the spot or to have an agent resident there, whose name and address must be given on the tender.

Conditions of the contracts may be seen in the Lobby of the Department of the Controller of Victualling, Admiralty, Somerset House, W.C.; or by applying to the Superintendents of the Victualling Establishments at Deptford, Gosport, and Plymouth; the Superintendents of Her Majesty's Dockyards at Woolwich, Chatham, Sheerness, and Pembroke; the Agent for the Victualling at Haulbowline; the Officers conducting the Packet Service at Dover, Liverpool, and Southampton; the Secretary to the Postmaster-General, Dublin; to the Collectors of Her Majesty's Customs at

Aberdeen | Greenock | Sellly

Greenock
Harwich
Hull
Jersey and Guernsey
Londonderry (for Lough
Payle)

Scilly
Shields
swansea
Waterford
Westport
Wexford
Wewmouth Aberdeen Belfast Berwick Cowes Dartmouth Falmouth Fleetwood Fowey Galway

Dartmouth
Falmouth
Falmouth
Foyle)
Fleetwood
Fowey
Galway

And to the Postmasters at each of the other places.
Forms of tender may also be obtained on application at the Lobby of the Department above-mentioned, or to the proper Officer at either of the above places.
No tender will be received after Twelve o'clock at noon on the day of treaty, nor any noticed unless made on the printed form provided for the purpose; but it will not be necessary that the party tendering or an agent appointed by him should attend at this office, as the result of the offer received from each person will be communicated to him and to his proposed sureties in writing.
Every tender must be delivered at the Department of the Controller of Victualling, Admiralty, Somerset House, and signed by two responsible persons, engaging to become bound with the person tendering in the sum of £300 for the due performance of each of the contracts for Sheerness, Portsmouth, Plymouth, and Queenstown and Kinsale; and in the sum of £300 for each of the other contracts.

The contractors to pay half the amount of the stamps on their contracts and

onds.

By Order,
ANTONIO BRADY,
Registrar of Contracts and Public Securities.

Contract Department, Admiralty, Somerset House, May 2, 1868.

b

Tower-Sale of Stores.

BY ORDER OF THE SECRETARY OF STATE FOR WAR.

M. GEORGE SPILLMAN WILL SELL,
BY PUBLIC AUCTION, in the TOWER, on
Monday, the 25th May, 1888, at Eleven o'clock in the
forencon precisely, the following STORES: MUSICAL INSTRUMENTS. BRASS.

TURRET CLOCK.
BEDDING.
MUSKET STOCKS.
ACCOUTREMENTS.

IRON. CROCKERY.

May be viewed at the Tower from Ten to Four o'clock, the three days previous to the day of sale, and catalogues may be had at the War Office, Pail Mail; the Fower; and Royal Arsenal, Woolwich.

Contract for Best British Iron.

BY ORDER OF THE SECRETARY OF STATE FOR INDIA IN COUNCIL. NOTICE IS HEREBY GIVEN, that the DIRECTOR - GENERAL OF STORES FOR 1NDIA will be READY on or before Monday, the 11th instant, to RECEIVE PROPOSALS, in writing, sealed up, from such persons as may be willing to SUPPLY—

BEST BRITISH IRON. And that the conditions of the said contract may be had on application, addressed to the Director-General of Stores, India Office, Westminster, S.W., where the proposals are to be left any time before Two o'clock r.M. of the said 11th day of May, 1868, after which hour no tender will be received.

India Office, May 1, 1868. GERALD C. TALBOT, Director-General.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the CROWAN AND WENDRON TIN AND COPPER MINING COMPANY CHIMITED).—Notice is hereby given, that a PETITION for the WINDING UP of the ABOVE-NAMED COMPANY by the Court was, on the 25th day of April, 1868, presented to the Vice-Warden of the Stannaries by Michael Henry Williams, of Tredrea, in the county of Cornwall, now carrying on business at Gweek, near Helston, within the Stannaries of Cornwall, under the style of the "Gweek Company," a creditor of the said company, and that the said petition is directed to be heard before the Vice-Warden, at the Prince's Hall, Truro, on Wednesday, the 20th day of May inst., at Twelve o'clock at noon.

Any contributory or creditor of the company may appear at the hearing and oppose the same, provided he has given at least two cleardays' notice to the petitioner, or his solicitor, or agents, of his Intention to do so, such notice to be forthwith forwarded to P. P. Smith, Esq., secretary of the Vice-Warden, Truro.

Every such contributory or creditor is entitled to a copy of the petition and affidavit verifying the same from the petitioner, or his solicitor, within 24 hours after requiring the same, on payment of the regulated charge per folio.

Affidavits intended to be used at the hearing, in opposition to the petition, must be filed at the Registrar's Office, Truro, on or before the 16th day of May inst., and notice thereof must at the same time be given to the petitioner, or his solicitor, or agents.

(Solicitor of the Petitioner).

GREGORY AND CO., I, Bedford-row, London Dated Truro, 2d May, 1868.

(Agents of the said Solicitor).

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE CARN CAMBORNE MINE.

TO BE SOLD, pursuant to an Order made in the Cause of Harding r. Bishop and Others, dated the 19th day of September, 1867, at the Registrar's Office, at Truro, on Wednesday, the 20th day of May next, at One o'clock in the afternoon, the

(Agent for Messrs, R. W. Childs and Batten, 25, Coleman-street, London, Plaintiff's Solicitors).

Dated Registrar's Office, Truro, May 7th, 1868.

TO MINING AND OTHER ENGINEERS.

TO MINING AND OTHER ENGINEERS.

REMAINING STOCK of Mr. JOHN WALKER. ENGINEER, who is removing, the premises being required for the Middle-class Schools.

MESSRS. H. BROWN AND T. A. ROBERTS WILL SELL, BY AUCTION, on the premises, No. 17, Cowper-street, City-road, on Tuesday, May 26, at Twelve for One o'clock, the remaining

day, May 26, at Twelve for One o'clock, the remaining STOOK OF AN ENGINEER,

Comprising FOUR QUARTZ STAMPING MACHINES and gearing, 11 patent bottle-washing machines for hand or steam power, amalgamators and retort, patent sugar mill, 8 in. hydraulic press, small engine, boiler, cylinders, pumps, crab, socket pipes, chains, links, about 1 ton mitre iron castings, scrap frou pullies, patterns, and a variety of useful items.

May be viewed the day preceding the sale, catalogues had of Messrs. II. Brown and T. A. Roberts, 22, Throgmorton-street, Bank.

TO COLLIERY PROPRIETORS, CAPITALISTS, AND OTHERS VALUABLE FREEHOLD MINERAL PROPERTY
in the centre of the great coal formation of SOUTH WALES. TO B
SOLD, BY PRIVATE TREATY, THE TONMAWR ESTATE,

THE TONMAWR ESTATE,
Situate near NEATH, in the county of GLAMORGAN, containing about ONE
HUNDRED AND TWENTY ACRES. The upper veins of coal and ironstone
are open upon the property within a quarter of a mile of the South Walss
Mineral Railway, upon which there is a lateral siding admirably suited for the
transit of this coal field.

The surface land is in good condition, and a portion of it has been planted
with larch and Scotch fir. There are sixteen substantially-built workmen's
houses, with store, shop, and school room, all of which will be included in the
sale.

sale.
For terms and particulars apply to Messrs, GREEN and ALLIN, Solicitors, 10,
Angel-court, Bank, London; or Mr. EDMUND STRANGE PARSONS, Neath,
A portion of the purchase-money may remain on mortgage for a term, at
4 per cent, per annum. BARNSLEY.

VALUABLE COLLIERIES FOR SALE. PRELIMINARY ANNOUNCEMENT.

TO BE SOLD, BY PUBLIC AUCTION, towards the end of the month of July next, unless previously disposed of by private contract, when due notice will be given—
LOT 1.—All that VALUABLE COLLIERY, with the ENGINES and PLANT,

and situate on the Barnsley Branch of the Lancashire and Yorkshire Railway and the Barnsley Cazal, and distant from the town of Barnsley one mile.

LOT 2.—All that other VALUABLE COLLIERY, with the ENGINES and PLANT, situate at Mapplewell, near Barnsley, and upon the said Branch Railway, and called the NORTH GAWBER COLLIERY.

The well-known Barnsley thick bed of coal is being worked by the above-mentioned pits, which are in first-rate working condition.

Further detailed particulars of the sale will be issued hereafter, and all in-formation may be obtained upon application being made to Mr. G. Armstracka, solicitor, Newcastle-upon-Tyne; or to Mr. W. H. PEACOCK, solicitor, Barnsley, Barnsley, 27th April, 1368.

ISLIP IRON ORE WORKS.

TO BE LET, the IRON ORE WORKS.

THRAPSTON, in NORTHAMPTONSHIRE, immediately adjoining the Kettering branch of the Midiand Railway, and with which they are in direct connection. The stone has been extensively worked by the owner, and is of good quality.

Apply to Mr. M. Bigge, Islip, Thrapston; or to J. Kimpton, Esq., Corn Market, Derby.

These shares are quoted in the daily journals at £3 10s. to £3 15s. each, and constant transactions are announced to have taken place. The advertiser requires an immediate purchaser at the reduced price of 20s, per share. A dividend of 2s, per share was declared Dec. 31 last, and if the reports and accounts are bona fide the shares must be exceedingly cheap even at the quoted prices of £3 10s. to £3 15s. per share. 23 10s. to £3 15s. per share.

Apply to Messrs. HARRISON and Co., Crown Chambers, Threadneedle-street, London, £C.

PIG LEAD.

MESSRS. WESTON AND COLLINGBORN SOLICIT ORDERS for SOFT PIG LEAD, which they are producing of the very best quality Prices on application.

WORKS,—SWINFORD, GLOUCESTERSHIRE.

OFFICE,-18, PETER STREET, BRISTOL.

S I X P O U N D S P E R W E E K
While laid up by injury, and
ONE THOUSAND POUNDS IN CASE OF DEATH CAUSED BY ACCIDENT
OF ANY KIND,
May be secured by an annual payment of from £3 to £6 5s.

RAILWAY PASSENGERS' ASSURANCE COMPANY.

RAILWAY ACCIDENTS ALONE
May also be provided against by insurance tickets for single or double journies.
For particulars apply to the Clerks at the Railway Stations, to the

For particulars apply to the tiers at the Local Agents, or at the OFFICES,—64, CORNHILL, and 10, REGENT STREET, LONDON. W. J. VIAN S

RAILWAY WAGON WORKS, BARNSLEY

MESSRS. G. W. AND ARE PREPARED TO

SUPPLY COAL AND COKE WAGONS OF EVERY DESCRIPTION, Either for cash, or by preferred payments through wagon-leasing companies.

WAGONS PROMPTLY REPAIRED.

LOCOMOTIVE TANK ENGINES FOR MINES AND COLLIERIES.

HENRY ENRY HUGHES AND CO., FALCON WORKS, LOUGHBOROUGH, Have ALWAYS in PROGRESS, and can SUPPLY at short notices

TANK ENGINES To suit any gauge of railway and gradients from 1 in 16.

THE BEVERLEY IRON AND WAGON COMPANY

MANUFACTURERS OF RAILWAY WAGONS, WHEELS AXLES, LORRYS, CARTS, WOOD WHEELS, &c., IRONWORKS, BEVERLEY, YORKSHIRE.

THE RAILWAY SPRING COMPANY (LIMITED), DIAL WORKS, WEST BROMWICH,

MANUFACTURERS OF
RAILWAY, WAGON, AND CARRIAGE SPRINGS
Orders executed with the utmost dispatch, of first-rate quality,

RAILWAY WAGONS.

TO BE LET, on REDEMPTION HIRE, about ONE HUNDRED narrow gauge 7-ton COAL WAGONS. Apply, "SECRETARY," SOUTH OF ENGLAND WAGON COMPANY (LIMITED).

37, GREAT GEORGE STREET, WESTMINSTER, S.W. BAGILLT OIL COMPANY (LIMITED),

FLINT FOR COLLIERY WIRE ROPES, TRAMS, WAGONS, &c., £5 PER TON TORCH AND LAMP OIL, 1s. PER GALLON (Casks free).

LUBRICATING OIL, 1s. PER GALLON (Casks free).

ESTABLISHED 1847. H. STATHAM AND COMPANY,

MANUFACTURERS OF EVERY DESCRIPTION OF INDIA RUBBER AND GUTTA PERCHA VALVES, &c.,
WASHERS, BUFFERS, HOSE PIPES, TUBING,

STEAM PACKING, BELTING,
BLASTING TUBE FOR NITRO-GLYCERINE POWDER. AIR AND WATER PROOF ARTICLES.

To proprietors of mines, quarries, mills, railway and steamboat companies, and all large consumers, most advantageous terms are offered.

ANY ARTICLE MADE TO SKETCH OR PATTERN.

PRICE LISTS AND SAMPLES ON APPLICATION, 11, CORPORATION STREET, MANCHESTER; IRWELL WORKS, SALFORD.

PEACOCK AND BUCHAN'S COMPOSITIONS. Nos. 1 and 2 for SHIPS' BOTTOMS; 3 and 4 for RAILWAY AND MINING PLANT, &c.

MINING PIANT, &c.

FROM P. J. MARGERY, ESQ., C.E., ENGINEER OF THE SOUTH DEVON RAIL-WAY COMPANY.

South Devon Railway Engineer's Office, Dawlish, Sept. 23, 1865.

I have extensively used Messix. Peaceck and Buchan's No. 3 paint or composition, on the viaducts and bridges of the South Devon Railway, and I consider it to be a paint of very good qualities, and that two coats of it are equal to three other paints; also that its durability is greater.

(Signed) P. J. MARGERY, Engineer S.D.R., M.I.C.E.
N.B.—The South Devon Railway Company have continued to use it, and are now painting their stations with it.—February, 1868.

EXTRACT OF A LETTER FROM EDWARD WOODS, ESQ., C.E.
DEAR SIR,—Please prepare 6 cwts. of your composition for preserving timber; put up in strong wooden casks, to go round the Horn for the Coplapo Railway Company.

Gapt. George Peacock.
(Signed)

EDWARD WOODS.

For price, &c., apply to—

For price, &c., apply to -PEACOCK AND BUCHAN, SOUTHAMPTON.

TO THE PROPRIETORS OF FIRE BRICK, STONEWARE PIPE, AND TILE WORKS; ALSO, OF ARTIFICIAL MANURE, PATENT FUEL AND SUGAR WORKS, &c., &c.

FUEL AND SUGAR WORKS, &c., &c.

CARR'S PATENT DISINTEGRATOR,
For REDUCING to a FINE GRANULAR POWDER various UNFIBROUS
MATERIALS (whether HARD or SOFT) at the rate of from TEN to THIRTY
TONS AN HOUR, according to the size and strength of the one used, and the
amount of power available to drive it.

This unique and efficient mill, unparalleled for noveity, wholesale execution,
and dispatch, is rapidly superseding throughout the United Kingdom and
abroad all other pulverising machines at the above-named and other works, at
an immense improvement to their manufacture in quality and quantity, and at
a saving in steam-power and labour, in some individual cases amounting to
several hundreds of pounds a-year.

a saving in steam-power and labour, in some individual cases amounting to several hundreds of pounds a-year.

An illustrated pamplet, fully describing the disintegrator, with woodcuts and prices (which range from £60 to £140), together with the names and addresses of some two hundred of its purchasers (some of whom have taken two, three, or even four of them), will be forwarded at any time, free of charge, on application to the patentee, as below, who will also send, by sample post where specially required, samples of powdered materials in the precise state as they were pulverised by various disintegrators, consisting of fire-clays, ganister, shale, heavy burnt stoneware, coal, pitch, &c., and likewise the names of some of the purchasers who have kindly consented to show theirs in operation to bonagited enquirers.

purchasers who have kindly consented to show them. Person enquirers.

THOMAS CARR, PATENTEE, MONTPELIER, BRISTOL. WILTON'S MATHEMATICAL INSTRUMENT ESTABLISHMENT REMOVED from St. Day to A. JEFFERY'S, CAMBORNE.

W. H. WILTON begs to thank his friends for their very liberal support for so many years, and informs them that he has now declined business in England in favour solely of Mr. A. JEFFERY, MATHEMATICAL INSTRUMENT MAKER, CAMBORNE, whom he considers (having been an assistant to his father for several years) is in every way capable of creditably maintaining the good name universally awarded to Wilton's instruments.

A. JEFFERY

A. JEFFEKY

A. JEFFEKY

Mespectfully begs to inform Mine Managers, Surveyors, Engineers, &d., that having purchased Mr. Wilton's business, and the very valuable acquisitions and appliances belonging thereto, he has enlarged his Mathematical Instrument Manufactory, and is prepared to supply TiteoDollites, Dills, Pocket Dills, Levels, Traversing and Plain Phothactors, Cases of Drawing Instruments, Measuring Chairs and Tapes, Assavers' Scales and Weights, Engise Counters, and, in short, every description of Instruments used in Surveying, Measuring, Mapping, &c.

Repairing in all its branches promptly attended to.

THE SCIENTIFIC WONDER.

This INSTRUMENT has a CLEAR MAGNIFYING POWER of THIRTY-TWO THOUSAND TIMES, shows all KINDS of ANIMÆLCULÆ in WATER, CIRCULATION of the BLOOD, &c., &c., ADULTERATION of FOOD, MILK, &c., and is just the MICROSCOPE that every Surgeon, Dentist, Schoolmaster, Student, and Working Man should have. It is pronounced by the press (and all scientific men who have seen it) to be the best, cheapest, and most simple microscope ever invented. It has twenty times the power of the Coddington or Stanhope Microscope, and is twice as good as the celebrated Rae Microscope (which has been awarded so many Prize Medals), as may be inferred from the following letter received from Mr. Kae himself:—

TO MR. MCCULLOGH, PHILOSOPHICAL INSTRUMENT MAKER.

TO MR. McCullocii, Philosophical Instrument Maker. Carlisle, December 12th, 1867.—SIR: Having seen some of your Diamond-Plat Lenses, I write to ask your terms for supplying me with the same per 20 gross as I consider them superior to mine. RAE AND CO., Opticlans, Carlisle.

I beg to inform the public that I have no agents anywhere, and all pretended agents are imposters. The above instrument can only be had from me, in Birmingham. Those at a distance who care for instruction and amusement, can have it safe and free by sample post, with book of full instructions, on receipt of 32 p stage stamps. Samples sent abroad, two stamps extra.

All persons wishing further particulars and testimonials, must send stamped and addressed envelope.

ADDRESS A. MCCULLOCH, PHILOSOPHICAL INSTRUMENT MAKER. No. 18, BLUCHER STREET, BIRMINGHAM.

MATHEWS, AND CO., ENGINEERS,
MANUFACTURERS of STEAM ENGINES of EVERY DESCRIPTION, made
on the BEST and NEWEST PRINCIPLES. We beg more especially to call the
attention of the public to the MANUFACTURE of our BOILERS, which have
been tested by most of our leading engineers. PUMP WORK CASTINGS of
EVERY DESCRIPTION, both of brass and iron. HAMMERED IRON and
HEAVY SHAFTS of ANY SIZE. CHAINS made of the best iron, and warranted. MINERS' TOOLS and RAILWAY WORK of EVERY DESCRIPTION.
ALL ORDERS FOR ABROAD RECEIVE their BEST ATTENTION.
NICHOLES, MATHEWS, and CO. have had 20 years' experience in supplying mahinery to foreign mines, and selecting experienced workmen to erect the same,
where required.
Mess-rs. NICHOLLS., MATHEWS, and CO. have always a LARGE EYOCK of
SECOND-HAND MINE MATERIALS in stock, and at moderate price.

WILLIAMS'S PERRAN FOUNDRY COMPANY,
MANUFACTURERS of STEAM PUMPING and EVERY OTHER KIND of
ENGINES, together with BOILERS, PUMP CASTINGS, and MINING TOOLS
of every description, of the very best quality. Estimates given for the stary of
any amount of machinery. London Agent.—Mr. Edward Cooke, 76, Old Broad-street, London E.C.

RAILWAY CARRIAGE COMPANY (LIMITED)

ESTABLISHED 1847.

OLDBURY WORKS, NEAR BIRMINGHAM.

MANUFACTURERS of RAILWAY CARRIAGES and WAGONS, and EVERY
DESCRIPTION of IRONWORK.

Passenger carriages and wagons built, either for cash or for payment
over a period of years.

RAILWAY WAGONS FOR HIRE.

CHIEF OFFICES,—OLDBURY WORKS, NEAR BIRMINGHAY.

LONDON OFFICES,—6 STOPFYS GATE GREAT GEORGE STREET

LONDON OFFICES,—6, STOREY'S GATE, GREAT GEORGE STREET, WESTMINSTER.

THE BIRMINGHAM WAGON COMPANY (LIMITED)
MANUFACTURE RAILWAY WAGONS of EVERY DESCRIPTION, for
HIRE and SALE, by immediate or deferred payments. They have also wagons
for hire capable of carrying 6, 8, and 10 tons, part of which are constructed specially for shipping purposes. Wagons in working order maintained by contract.

WAGON WORKS,—SMETHWICK, BIRMINGHAM.

** Loans received on Debenture; particulars on application.
London Agent—Mr. E. B. SAVILE, 67, Victoria-street, Westminster, S.

STAFFORDSHIRE WHEEL AND AXLE COMPANY
(LIMITED),
MANUFACTURERS of RAILWAY CARRIAGE, WAGON, and CONTRACTORS' WHEELS AND AXLES, and other IRONWORK used in the CONSTRUCTION of RAILWAY ROLLING STOCK.

HEATH STREET SOUTH, SPRING HILL, BIRMINGHAM.
LONDON OFFICE,—118, CANNON STREET, E.C.

SCHWEPPE'S MINERAL WATERS. By Special Appointment to

HER MAJESTY and H.R.H. the PRINCE OF WALES. Every bottle is protected by a label having name and trade marker London, Liverpool, Derby, Bristol, Glasgow, Malvern.

SLATES.

WALNEY SCAR QUARRIES SITUATE NEAR CONISTON OLD MAN.

For particulars and samples of these very durable green and grey slates, address "Manager," Walney Scar Slate Works, Broughton-in-Furness.

GREEN SLATES.

REEN SLATES OF ANY SIZE, and of the CHOICEST COLOUR and QUALITY, can now be OBTAINED from the DOROTHEA WEST SLATE COMPANY (LIMITED), CARNARVON.
The "CHARING CROSS HOTEL," "STAR AND GARTER HOTEL" (Richmond), "LONDON-BRIDGE HOTEL," and many other public buildings, are covered with these elegant slates.
Orders will be executed in regular succession.
Apply to Mr. Thomas Harvey, General Manager, 9, Segontium-terrace, Farnarvon, or 33, King-street, Cheapside, London.

DYNAMITE, OR NOBEL'S PATENT SAFETY BLASTING POWDER, May now be had from

MESSRS. WEBB AND CO., CARNARVON, Sole consignees from the patentee.

This powerful BLASTING AGENT will not explode from a spark, or concussion alone, but requires the combined effect of both, and is fired by a strong percussion cap and ordinary fuse. In a compressed state it may be fired in damp holes, or under water.

Force, SEYEN TIMES that of the BEST GUNPOWDER.

Force, SEVEN TIMES that of the BEST GUNPOWDER.
It will shiver to pieces cast or wrought-iron, or the toughest teak timber. No
tampling is required. It is by far the safest explosive for blasting put loses
ever discovered.

NITRO-GLYCERINE, OR NOBEL'S PATENT BLASTING OIL.

THE EXPLOSIVE FORCE of this BLASTING OIL is TEN THE EXPLOSIVE FORCE of this BLASTING OIL IS TEN
TIMES that of GUNPOWDER, and the ECONOMY and SAVING in
TIME, LABOUR, and COST in removing granite and hard rock, in sinking
shafts, driving tunnels, and opening forward in close ends is immense.
It will not explode from a spark or fire, but from concussion alone, and is consequently much less dangerous than gunpowder or gun-cotton.
Being heavier than water it sinks to the bottom of a wet hole, no other tamping than water being required.

Being heavier than water it sinks to the bottom of a wet hole, no other tamping than water being required.

One charge of this blasting oil, which is now being used with wonderfuleffect in all the largest slate quarries in North Wales, will displace as much slate rock as four or five charges of gunpowder; and its great force, acting on a large quantity of good slate rock, shakes and displaces it at the natural joints, or cracks, without damaging the slabs nearly so much as the more numerous blasts from any other blasting material would do.

This invaluable quarrying agent may now be obtained from Messrs and Co., Carnarvon, sole consignees from the patentee.

C OAL CUTTING MACCHINERY.—
The WEST ARDSLEY COMPANY having, by recently patented improvements, perfected their coal cutting machinery, worked by compressed air, are NOW READY to MAKE CONTRACTS for the CONSTRUCTION and USE of their MACHINES.

their MACHINES.

The results of twelve months' experience in the working of these machines, by the West Ardsley Company, have proved most satisfactory, their use being found to CHEAPEN the COST and IMPROVE the average SIZE of the COAL, to LIGHTEN the LABOUR, and also to MODIFY the SANITARY CONDITION of the MINE. All communications to be made to Messrs. FIRTH, DONISTHORPE, and BOWER, No. 8, Britannia-street, Leeds.

NOTICE.—The WEST ARDSLEY COMPANY, having reason to believe that their patents are being intrinsed.

to believe that their patents are being infringed upon, hereby giveing title that they will TAKE LEGAL PROCEEDINGS AGAINST ALL PARTIES who may MAKE FOR SALE, or USE ANY MACHINERY in the construction of which any such INFRINGEMENT is MADE.

NALYSES, ASSAYS, AND CHEMICAL INVESTIGATIONS, OF ALL DESCRIPTIONS, ARE UNDERTAKEN BY

A. NORMAN TATE, F.A.S.L., &c.,
ANALYTICAL and CONSULTING CHEMIST, and CHEMICAL ENGINEER
(Author of "Petroleum and Its Products," "The Manufacture of
Caustic Soda," and other Chemical Memoirs), 15, NEWSTEAD ROAD, SMITHDOWN ROAD, LIVERPOOL.

Mr. TATE, who has had many years practical experience in the crection and nanagement of extensive chemical manufactories, and oil distilleries and reficeries, also offers his services to those who may require—PLANS, ESTIMATES, &c., for CHEMICAL WORKS, OIL DISTILLERIES and REPERRIES, and other MANUFACTORIES in which CHEMICAL PROCESSES are CONFECTED.

ONDUCTED.

The SUPERINTENDENCE of the ERECTION OF WORKS OF OF MANUAFACTURING

PROCESSES.
The VALUATION OF WORKS.
The EXAMINATION OF PATENTS, NEW PROCESSES OF APPABATUS connected with CHEMICAL MANUFACTURES.

RITISH, COLONIAL, AND FOREIGN PATENTS, REGISTRATION OF DESIGNS, COPYRIGHTS, TECHNICAL TRANSLATIONS, DRAWINGS, &c.

MR. MICHAEL HENRY,
Memb. Soc, Arts, Assoc. Soc. Engineers, Author of the "Inventors' Almanac," and the "Defence of the Present Patent Law,"

PATENT REGISTRATION AND COPYRIGHT AGENT AND ADVISER. Inventors advised in relation to Patents and Inventive and Industrial Maters. Printed information sent free by post. Specifications drawn and revised, Searches conducted. Abstracts, Cases, and Opinions drawn.

Translations of Catalogues, Trade Notices, and Circulars for the approaching Paris Exhibition. Mr. HENRY has had especial experience in technical French, and in French Manufacturing and Commercial Matters.

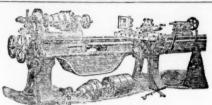
Offices, 63, Ficet-street, E.C., London, corner of and entrance in Whitefriars.

BICKFORD'S PATENT SAFETY FUSE

Obtained the PRIZE MEDALS at the "ROYAL EXHIBITION" of 1851; a the "INTERNATIONAL EXHIBITION" of 1862, in London; at the "IMPERIAL EXPOSITION" held in Paris, in 1855; at the "INTERNATIONAL EXHIBITION," in Dublin, 1855; and at the "UNIVERSAL EXPOSITION," in Paris, 1867.



BICK FORD, SMITH, AND CO., TUCKINGMILL, CORNWALL, MANUFACTUCKINGMILL, CORNWALL, MANUFACTUCKINGMILL, CORNWALL, MANUFACTUCKINGMILL, CORNWALL, MANUFACTUCKINGMILL, CORNWALL, MANUFACTUCKING THE AND FORM TH



STEAM ENGINES.

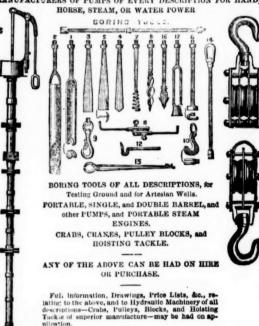
ENGINEERS' TOOLS, BUILDERS' CONTRACTORS'
COLLIERY PLANT, AND MACHINERY,
Of every description, new and secondhand,

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IMPROVED PATENT FLAT AND ROUND WIRE ROPES,
From the very best quality of charcoal iron and steel wire. PATENT FLAT AND ROUND HEMP ROPES. HIPS' RIGGING, SIGNAL AND FENCING STRAND, LIGHTNING CON DUCTORS, STEAM PLOUGH ROPES (made from Webster and Horsfall'a patent steel wire), HEMP, FLAX, ENGINE YARN, COTTON WASTE, TARPAULING, OIL SHEETS, BRATTICE CLOTHS, &c.

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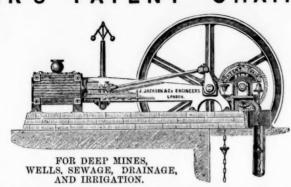
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CHAIN PUMP. BASTIER'S

ABYSSINIAN EXPEDITION.-Three of these Pumps were forwarded along with the Expedition last Autumn, and various telegrams have since been received ordering others to be sent IMMEDIATELY.

The Bastier Pump is now used throughout England-sizes varying from 21 to 15 inches diameter, and up to 300 feet deep.

It is being used with great satisfaction for lifting fluids for various purposes in Manufactories.



PUMPS WITH STEAM ENGINES, AND CATTLE, WIND, OR HAND-POWER GEAR,

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FOR THE COUNTIES OF NORTHUMBERLAND, DURHAM, YORK, DERBY, AND NORTH STAFFORD, APPLY TO

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A SMALL PUMP MAY BE SEEN AT WORK ON APPLICATION TO MESSRS. J. H. GREENER AND CO., 5, JOHN STREET, ADELPHI, W.C., WHO WILL ALSO SUPPLY ANY INFORMATION REQUIRED.

HEATON'S PATENT.

THE LANGLEY MILL STEEL & IRONWORKS COMPANY

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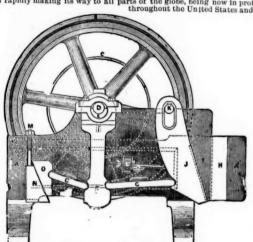
Are now making Cast-Steel suitable for Tools, Taps, Dies, Chisels, &c., &c., Shear Steel, and Iron of a very superior quality, by their direct process, under the superintendence of the Patentee.

The range of quality which this process secures renders the Steel and Iron suitable for almost every purpose to which these range can be applied. Also, CAST-STEEL CASTINGS of all kinds from PATTERNS or DRAWINGS.

TO MINERS, IRONMASTERS, MANUFACTURING CHEMISTS, RAILWAY COMPANIES, EMERY AND FLINT GRINDERS, MCADAM ROAD MAKERS, &c., &c.

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FOR REDUCING TO SMALL FRAGMENTS ROCKS, ORES, AND MINERALS OF EVERY KIND. It is rapidly making its way to all parts of the globe, being now in profitable use in California, Washoe, Lake Superior, Australia, Cuba, Chili, Brazil, and throughout the United States and England. Read extracts of testimonials:—



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The Parys Mines Company, Parys Mines, near Bangor, June 6.—We have had one of your stone breakers in use during the last twelve months, and Captain Morcom reports most favourably as to its capabilities of crushing the materials to the required size, and its great economy in doing away with manual labour. For the Parys Mining Company,

H. R. Marsden, Esq.

Ecton Emery Works, Manchester.—We have used Blake's patent stone breaker made by you, for the last 12 months, crushing emery, &c., and it has given-every satisfaction. Some time after starting the machine a piece of the moveable lav s about 20 lbs. weight, chilled cast-iron, broke off, and was crushed in the jaws of the machine to the size fixed for crushing the emery.

H. R. Marsden, Esq.

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Alkali Works, near Wednesbury.—I at first thought the outlay too much for so simple an article, but now think it money well spent. WILLIAM HUNT.

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Our 15 by 7 in. machine has broken 4 tons of hard whinstone in 20 minutes.

Messrs. Ogd and Maddison,
Stone and Lime Merchants, Darlington.

Kirkless Hall, near Wigan.—Each of my machines breaks from 100 to 120 tons of limestone or ore per day (10 hours), at a saving of 4d. per ton.

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Ovoca, Ireland.—My crusher does its work most satisfactorily. It will break 10 tons of the hardest copper ore stone per hour. WM. G. ROBERTS.

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SILAS WILLIAMS.

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ONLY MAKER IN THE UNITED KINGDOM.

CAUTION! BLAKE'S PATENT STONE BREAKER,

In Changery. BLAKE v. ARCHER, NOVEMBER 12, 1867.

His Honour the Vice-Chancellor Wood having found a VERDICT in FAVOUR of the PLAINTIFFS in the above Cause, establishing the VALIDITY of BLAKE'S PATENT, and made a DECREE for an INJUNCTION to RESTRAIN the DEFENDANTS, Messrs. Thomas Archer and Son, of Dunston Engine-Works, near Gateshead-on-Tyne, from INFRINGING such PATENT, and ordering them to pay to the Plaintiffs the costs of the Suit.

ALL PERSONS are hereby CAUTIONED against MANUFACTURING, SELLING, or USING any STONE BREAKERS similar to BLAKE'S, which have not been manufactured by the Plaintiffs. Application will forthwith be made to the Court of Chancery for INJUNCTIONS AGAINST ALL PERSONS who may be found INFRINGING BLAKE'S PATENT after this notice.

H. R. MARSDEN, SOHO FOUNDRY, MEADOW LANE, LEEDS.

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PARIS EXHIBITION, Silver Medal for STEAM CRANES.

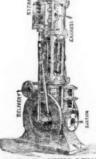
1867—AWARDS, Bronze Medal for DONKEY FEED PUMPS.

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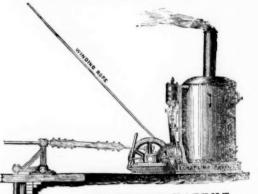
Engineers and Patentees of STEAM CRANES, DONKEY PUMPS, &c.

PATENT DONKEY PUMPS.



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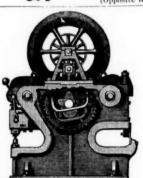
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EASILY ERECTED or REMOVED.
Sizes, from 2 to 30-horse power.

Stationary Engines, 1 to 30-horse power, with or
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Steam Cranes, 30 cwts, to 20 tons, for wharf or pit.
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In the Matter of the Silver Vein Mining Company (Limited), Being wound-up voluntarily under the Companies Act, 1862.

NOTICE IS HEREBY GIVEN, that all PERSONS indebted to the above estate are REQUESTED to PAY the AMOUNT of their RESPECTIVE DEBTS into the hands of the liquidator forthwith, and that all creditors and persons having any claims or demands whatsoever upon or against the estate of this company are hereby required to send in their names and advesses, and the particulars of their claims or demands, to the undersigned, at the offices of the said company, No. 95. Bishopsgate-street Within, in the City of London, on or before the 30th day of May, 1863, after which date the liquidator, S. Richards, will proceed to distribute the assets of the said company amongs the persons entitled thereto, having regard only to the claims or demands of which he shall have had notice at the time of such distribution. All persons who shall not have sent in their claims or demands as aforesaid, will be excluded from participating in the assets of the said company. TOTICE IS HEREBY GIVEN, that all PERSONS indebted to from participating in the assets of the said company.
Dated this 8th day of May, 1868.
S. RICHARDS, Liquidator.

In the Matter of the Companies Act, 1862, VOLUNTARY WINDING-UP OF THE DYFNGWM MINES COMPANY.

THE CREDITORS of the ABOVE-NAMED COMPANY are REQUIRED, on or before the 23d day of May, 1868, to SEND IN their NAMES and ADDRESSES and the PARTICULARS of their DEBTS or CLAIMS to George Hadley, of No. 20, St. Helen's-place, in the City of London, the liquidator of the said company, or in default thereof they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such claims or debts are sent in and proved.

COBB AND SOUTHEY, Solicitors to the above-named Liquidator. Dated this 23d day of April, 1868.

THE MINERA RAGMAN MINING COMPANY
(IJMITED).—Notice is hereby given, that a SPECIAL MEETING of the shareholders of the Minera Ragman Mining Company (Limited) will be HELD at the Hotel, Whitewell, near Citherce, on THURSDAY, the 18th day of June, 1868, at Threeo'clock in the afternoon, for the purpose of taking into consideration the advisability of dissolving the company and winding the same up voluntarily under the provisions of the Companies Act, 1862, and to appoint a liquidator.

By order of the directors,
THOMAS HUGHES, Secretary

3, Temple-row, Wrexham, 4th May, 1868.

CENERAL MINING COMPANY FOR IRELAND (LIMITED).

—Notice is hereby given, that the HALF-YEARLY GENERAL MEETING of the shareholders of this company will be HELD at their office, 29, Westmoreland, street, Dublin, on MONDAY, the 1st day of June next, at One o'clock P.M., for the fallowing numerous.

land-street, Dublin, on MONDAY, the 1st day of sume acceptance of the following purposes:

1.—To receive the accounts for the past half-year, ending 2d April last.

2.—To elect directors and auditors of the company for the ensuing year; the ballot-box for which election will be closed punctually at Three o'clock in the afternoon of the said day.

3.—To transact the general business of the company.

By order, H. C. FOWLER, Secretary.

29. Westmoreland-street, Dublin, May 7, 1868.
The Transfer-books of the company will be closed from Wednesday, the 20th day of May, to Tuesday, the 2d of June, inclusive.
A printed list of the qualified candidates for the directory will be ready at the office after the 20th inst.

UNITED MEXICAN MINING COMPANY (LIMITED).—
Notice is hereby given, that at an EXTRAORDINARY GENERAL MEETING of proprietors of this company, held this day, a CALL of TWO SHILLINGS AND SIXPENCE PER SHARE was made, payable on or before the lat July, 1868.

Office, 3, Great Winehester-street-buildings, E.C., London, May 6, 1868)

THE SCOTTISH AUSTRALIAN MINING COMPANY (LIMITED).—Notice is hereby given that the HALF-YEARLY GENERAL MEETING of the shareholders of the Scottish Australian Mining Company (Limited) will be HELD at the London Tavern, Bishopsgate-street, London, on FRIDAY, the 15th day of May next, at Twelve o'clock at noon precisely, to receive the directors report and accounts, declare a dividend, and to transact the other usual business.

other usual business.

And notice is hereby further given that, immediately after the business of the half-yearly general meeting of the company shall have been concluded, a SPECIAL GENERAL MEETING of the company will be HELD at the same place, at which a resolution will be proposed to increase the capital of the company.

The share transfer-books will be closed from Thursday, the 7th instant, usual Friday, the 15th instant, both days inclusive.

By order of the directors,

C. GRAINGER, Secretary,

1, King's Arms-yard, Moorgate-street, London, 4th May, 1868.

MOSQUITO AND POYAISIAN LAND SECURITIES. Notice is hereby given, that the TERM allowed for REGISTRATION of the above SECURITIES will EXPIRE on TUESDAY, the 12th May, 1868. After that date holders will lose the benefit of any grant from the Republic of Handuras.

C. F. SMITH, Hon. Soil.

Offices of the Central American Association, 4, Westminster-chambers.

Offices of the Central American Association, 4, Westminster-chambers, S.W.

M A T T H E W F R A N C I S, MINING ENGINEER, DESIGNS MACHINERY FOR MINES, AND LAYS OUT CHARTS FOR THE UNDERGROUND WORKINGS.

ADVISES as to the FUTURE of LODES from their nature and character, as seen in their surface indications, &c.

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He believes in mining as a certain and scientific pursuit, not as a lottery or enigmatical theorem depending on the chapter of accidents for success.

MATTHEW FRANCIS has worked a great number of mines to a profitable issue, frequently after they had been given up by his predecessors, or worked abortively—such as Wheal Carolina Copper, in Cornwall; the Aroa Copper Mines, in Venezuela, now called the Quebrada; the Logylas and Cwmystwith Lead Mines, and the Goginan, Darren, and other Silver-Lead Mines in Cardiganshire.

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:000 Bronfloyd, I, Cardigan*	12 0 0	9 9 0 0 6 0 May 186	
6400 Cashwell, l, Cumberland	2 10 0	0 1 6 0 1 6 Aug. 186	
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509 Creegbrawse and Penkevil, t		2 5 0 1 5 0 April 186	
867 Cwm Erfin, I, Cardiganshire	7 10 0	26 13 0 0 15 0 April 186	
128 Cwmystwith, l, Cardiganshire	60 0 0	381 10 0 2 0 0Dec. 186	
280 Derwent Mines, s-l, Durham	300 0 0	174 10 0 5 0 0 June 186	
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1024 Herodsfoot, I, near Liskeardt	8 10 0 40 39 41	45 0 0 1 10 0 Feb. 186	
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165 Levant, c, t, St. Just	10 8 1	1093 0 0 2 0 0 May 186	
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3000 Maes-y-Safn, l, Flint*	20 0 0 28	3 15 0 0 15 0 April 186	
9000 Marke Valley, c, Caradon	4 10 6 6% 6% 7	4 8 6 0 4 0 April 186	8
3000 Minera Boundary, l, Wrexham*	1 0 0	0 13 0 0 3 0 Mar. 186	6
1800 Minera Mining Co. I, Wrexham*	25 0 0 175 165 175	233 13 0 5 0 0 May 186	
20000 Mining Co. of Ireland, c, l, cl	7 0 0 20	0 5 7Jan. 186	
10000 Mwyndy Iron Ore*t	3 5 0	0 8 6 0 2 0 Mar. 186	
200 Parys Mines, c, Anglesey*	50 0 0	160 0 0 2 10 0 Mar. 186	
12800 Prince of Wales, t, Calstock	0 12 6 2 21/2 25/8	0 4 6 0 1 0 Feb. 186	
6000 Prosper United, t, c, St. Hilary	8 14 0	0 5 0 0 5 0 Feb. 186	
1120 Providence, t, Uny Lelant	10 6 7 28271/2 281/2	84 12 6 0 10 0 Feb. 186	
512 South Caradon, c, St. Cleert	0 0 0	580 10 0 6 0 0 Mar. 186	
6000 South Darren, l, Cardigan* 496 So. Wh. Frances, c, Illog. †		0 10 0 0 1 6 April 186	
508 Summer Hill, I, Mold	0 10 0		
6000 Tincroft, c, t, Pool, Illogant	0 0 0 9 9 34 95	10 0 A A F A 35 100	
2000 Trumpet Cons., t, Helston	11 10 0 —	12 10 0 0 10 0Mar. 186	
3000 W. Chiverton, I, Perranzabuloet	10 0 0 65 64 65	25 7 6 2 0 0. Feb. 186	
5000 West Godolphin, t, c, Breage	0 1 0	0 2 0 0 2 0. Dec. 186	
400 W. Wheal Seton, c, Cambornet	47 10 0 210 205 210	494 0 0 5 0 0 April 1868	
512 Wheal Basset, c, Illogant	5 2 6 65	631 10 0 1 0 0 April 186	
1024 Wheal Friendship, c, Tavistock	20 0 0	300 10 0 0 10 0 Nov. 1860	
512 Wheal Jane, s-l, Kea	10 10 0	2 0 0Jan. 186	8
4295 Wheal Kitty, t, St. Agnes	5 4 6	3 5 0 0 2 0. Feb. 1868	8
1024 Wheal Mary Ann, I, Menheniott	8 0 0 2216 2116 2216	64 5 0 0 17 6 Mar. 1868	8
80 Wheal Owles, t, St. Just;	70 0 0	350 13 0 7 10 0 Feb. 186	8
396 Wheal Seton, t, c, Camborne	58 10 0 771/2 80 821/2	254 15 0 2 0 0 Feb. 186	
3000 Whitewell Lead, Clitheroe*	0. 5 0	1 0 0 0 10 0Dec. 186	
7000 Wicklow, c, i, Wicklow	2 10 0141/4 141/2	48 16 0 0 6 0 April 186	5
MODELC	V DIVIDEND MI	MEG	

FOREIGN DIVIDEND MINES.

	FUREIGN DIVIDEND M	TTAL	4 D.
35000	Alamillos, I, Spain*1 2 0 0 134 2		0 2 6 0 1 6 Mar. 1868
	Australian,c, South Australia 7 7 6		0 1 0 0 1 0 Aug. 1867
15000	Cape Copper Mining*† 7 0 0 12 11 111/2		3 2 6 0 10 0 Feb. 1868
76162	Don Pedro North del Rey*# 0 14 0 278 21/2 23/4		0 15 9 0 5 0 Mar. 1868
	English and Australian, ct 2 10 0 38		0 1 0Feb. 1868
	Fortuna, l, Spain*t 2 0 0 2		1 9 4 0 2 0 Mar. 1868
20000	Gen, Mining Assoc., Nova Scotiat 20 0 0		23 10 0 0 15 0 June 1867
	Gonnesa, l,* [5000 £5 pd., 5000 £4 pd.]		10 per cent July 1867
	Kapunda Mining Co., Austratt 1 0 0 36		0 1 4 0 0 6 May 1868
	Linares, t, Spain*t 3 0 0 214		11 11 8 0 3 4 Mar. 1868
	Panulcillo, c, Chili*† 3 0 0 2		10 per cent Yearly.
	Peel River Land and Mineral* 100 0 0		
	Pontgibaud, s-l, Francet 20 0 0		4 14 3 0 11 0 June 1867
	Port Phillip, g, Clunest 1 0 0 154 11/6 15/8		1 1 0 0 1 0. May 1868
	Scottish Australian Min. Co.t. 1 0 0 118		#1/ non sout War Look
	St. John del Rey, Brazil*† 15 0 0 201/2 183/4 191/2	í	01 10 0 4 8 0 8 1008
	Vancouver, cl*t1 6 0 0 354 334 414		1 4 6 0 3 6. Feb. 1868
	Victoria (London) [25000 £1 pd., 25000 12s. 6d. pd.]		0 9 0 0 1 0Jan, 1866
	West Canada Mining Co.* 1 0 0		0 19 6 0 2 6. May 1866
10000	The Canada Mining Co I do		o 1000

NON-DIVIDEND FOREIGN MINES.

NON-DIVIDEND FORE	GN MINES.	
hares. Mines.	Paid. Last Pr. Bus. done. Last Call.	2
50000 Anglo-Argentine, 8, Argentine Republic*		ľ
00000 Anglo-Brazillan, g*†	0 10 0 38 58 34 Nov. 1866	
12500 Anglo-Italian, g*†	0 10 0 34 1/2 3/4 Jan. 1868	
20000 Australian United, g	1 00 Mar. 1868	
2464 Burra Burra, c, South Australia :	5 00	
20000 Capula, s, Mexico*†	1 14 6 May 1868	
30000 Chontales, g, s, Nicaragua*†	5 0 0 234 21/2 23/4 Mar. 1868	
12000 Cobre Copper Company, c, Cubatt	45 10 0 Jan. 1868	
10000 Copiapo Mining Company, Chilit	16 10 0	
10000 Copiapo Smelting, Chill*	10 0 0 April 1866	
300 Copper Miners' Co. of South Australia* [150 £100 pd.		
15000 El Chico Silver Mining and Reduction Company*	5 0 0 Nov. 1866	
10000 Fortune Copper Mining Co. of Western Australia	2 0 0 Fully pd.	
50000 Frontino and Bolivia, g, New Granada*†	1 17 6 5810s. 12sApril 1868	
10000 Great Barrier Land, Mining, &c., New Zealand	5 0 0 Fully pd.	
80000 Great Northern, c, South Australiat	1 11 6 Sept. 1862	
7927 Lusitanian (Portugal) †	3 0 0	П
83640 Mariquita, g, s, New Granada	1 0 0 Feb. 1868	1
2500 Nerbudda Coal and Iron, India*†	6 0 0 Dec. 1867	•
51000 New Quebrada, c, Venezuela*†	3 10 0	
15000 Otea, c, New Zealand*	2 0 0 Fully pd.	1
80000 Pestarena United, g, Italy*†	2 15 0 25/821/2 23/4	
10178 Rhenish Consolidated, [6000 £5 pd., 4178 £2 10s. pd.]	May 1866	-
00000 Rossa Grande, g, Brazil*†	0 14 0 34 5/8 7/8 June 1867	1
5000 San Pedro del Monte, s, Mexico*	4 0 0 Sept. 1866	1
10000 San Roque, I, Spain	5 0 0 Fully pd.	1
00000 Taquaril, g, Brazil*	0 5 0Oct. 1867	-
6000 Terreseu, s-l, Isle of Sardinia	2 0 0	
13174 United Mexican, s, Mexicott*	28 76 May 1868	-
30000 Val Antigoria, g, Italy*	1 26	1
6000 Val Sassam. s, c, l, Italy* +	7 0 0Aug. 1867	1
15000 Victor Emanuel, c, Italy*	1 00 Fully pd.	1
20000 Washoe, q. Nevadat	5 0 0 Fully pd.	1
30000 Worthing, c, South Australia*	1 00 3/8 1/2 Fully pd.	2
5000 Yorke Peninsula, South Australia		1
5000 Yudanamutana, c, South Australia*11	3 00 214 134 2 Fully pd.	-

NON DIVIDEND MINES

NON-DIVIDEND M	MINES.	30210 South of Scotland, c* 1 0 0
Shares, Mines.	Paid. Last Pr. Bus. done. Last Call.	2739 South Trevenna, c, t 2 10 0
		937 So. Wh. Crofty, c, Illogan 24 10 10 1
914 Caradon Consols c, St. Cleer		6000 South Wheal Grenville, t, c., 1 3 0
1000 Carn Brea, c, t, Illogant	. 28 0 0 18 17 19 May 1867	400 So. Wh. Seton, c, Camborne 81 3 0
5000 Carnaryonshire, l, Carnaryon*		and Channes Connects & St. Tuet 4 4 4
3000 Chiverton, I, Perranzabuloe	. 10 0 0 3 2 21/2 Feb. 1868	
3000 Chiverton Moor, l, Perranzabuloe	6 8 6 61/461/4 63/4 Aug. 1867	242 Spearne Moor, t, St. Just 6 20
2880 Clifford Amalgamated, c, Gwennapt	. 33 17 6 534538 538June 1867	673 St. Ives Wh. Allen, t, St. Ives 18 18 7
2450 Cook's Kitchen, c, Illogan‡		8771 St. Just Amalg., t,* [6000 £3 10s. pd., 2771 £2 5
10000 Dunie 317-11- 4 Claire 1-4		300 Steeple Aston Iron Ore Co 7 0 0 1034
12800 Drake Walls, t, Calstock		7000 Stiperstones, I, Salop* 5 10 0
512 East Basset, c, Redrutht	. 34 10 0Mar. 1868	3500 Tin Hill, t, St. Austell 1 12 0 —
6000 East Carn Brea, c, Redruth:	. 3 18 0 1 1 11/4 April 1868	FOR PROGRAMON and Prothumum 10 11 0
6000 East Grenville, c, Camborne	. 3 15 6 1% 35s. 37s Feb. 1868	501 Tresavean and Trethurrup 16 11 0
4000 East Wheal Russell, c, Tavistockt	. 13 26 1 % % April 1868	4440 Trevenen & Tremenheere 7 11 0
6144 Gonamena, c, St. Cleer	. 7 6 9April 1868	4096 Trewetha, s-l, Menheniot 7 17 0 114
5000 Great North Downs, c, Redruth	. 6 13 0 4 334 4 Feb. 1867	1943 Treworlis, t, Wendron 11 15 4
4800 Great Retallack, s-l, b, Perranzabuloe		4200 Vigra and Clogau, c, Dolg. * 1., 5 10 0
2149 Cheat Rent Walnut & Dodmith		1319 West Cwm Erfin, l* [319 £4 paid]
5143 Great South Tolgus, c, Redruth	. 31 7 4Mar. 1868	256 West Damsel, c, Gwennap 38 10 0
1798 Great Wheal Fortune, t, Breage		12000 W. Maria & Fortes., c, Lam 3 11 6 \
1024 Nangiles, t, c, Kea	. 29 17 0 —Feb. 1868	12800 West Prince of Wales, c 0 10 0 169#
400 New Wheal Seton, c, Camborne		12800 West Pose Down a Linking 60 17 6
3457 North Downs, c, Redruth	. 5 8 10Jan. 1868	1000 West Rose Down, c, Linking. 20 17 6
695 North Roskear, c, Camborne	. 57 19 0 12111/2121/2Mar. 1868	512 West Tolgus, c, Redruth 58 10 0 26 4
5936 North Treskerby, c, St. Agnes	. 1 9 0 20s % 1Dec. 1860	4096 W. Wh. Tremayne, c, St. Erth 0 60
5610 North Wheal Crofty, c, Illogant		741 Wheal Basset and Grylls, t 7 18 6
3000 North Wheal Chiverton, I, Perranzabuloe		6000 Wheal Crebor, c, Tavistock. 2 6 6
5000 Old Westminster, I, Denbigh		4000 Wh. Emma, c. Buckfastleigh 3 19 0
8465 Pedu-an-drea, t, Redruth		6000 Wheal Emily, s, Callington 0 1 0
1024 Rose and Chiverton United, I, Newlyn		6000 Wheal Ida, s-l, St. Ive 1 5 6
		1024 Wh. Kitty, t, Uny Lelantt. 3 10 6
6138 South Condurrow, t, c, Camborne		one Wh Margaret & Hay Lot . 10 17 0
940 St. Ives Consols, t, St. Ives		728 Wheal Margery, St. Ives, t, c 27 4 0
920 Stray Park, c, t, Cambornet		coop Wheel Many Florence et a 4 o
6000 Tamar Valley, s-l, Beeralston	. 0 76 Feb. 1868	6000 Wheat Mary Florence, Co. 2 4 0
548 Trelyon Consols, t, St. Ives	. 16 0 0Dec. 1866	1000 Wh.MaryHutchins,c,Plymp. 2 0 6
6000 West Basset, c, Illogan t	. 1 15 0Mar. 1867	2000 Wheal Rose, c, Scorrier 0 10 0
1024 West Caradon, c, St. Cleertt	. 20 10 0 8 5 51/2 Mar. 1868	6000 Wheal Sparnon, c, Redruth 3 15 0
12800 West Drake Walls, c, Calstock	. 0 5 0 Feb. 1868	1920 Wh. Trannack, c, Sithney 1 13 3
2582 West Great Work, t, Breage	. 5 11 0 June 1866	1200 Wheal Trevenna, t, c* 10 0 0
6000 West St. Ives, t, c, St. Ives		
512 West Wheal Frances, t, Illogan		
5000 West Wheal Kitty, t, St. Agnes		ALTO OTHER A LATER OTHER
		MISCELLANEOUS.
6000 Wheal Agar, c, Illogan		60000 Anglo-American Telegrh.* 10 0 0 23
512 Wheal Builer, c, Redruth ?		10000 Arklow Chemical Works, l. 1 0 0
811 Wheal Emily Henrietta, c, Illogan	. 20 0 0 33371/2421/2Jan. 1868	20000 Control American Associate 1 10 0
5724 Wheal Grenville, c, Cambornet		30000 Central American Associ.*† 1 10 0 11/4
1040 Wheal Trelawny, s-l, Liskeard†	. 7 12 0 81/2 8 9 Mar. 1868	80000 Ebbw Vale Iron Co.*† 27 0 0
5000 Wheal Uny, t, c, Redruth	. 10 14 6 2 2 21/4 Oct. 1867	148525 London Gen. Omnibus*† 4 0 0 2 2
		alleen load . A tin atm.

NON-DIVIDEND MINES.

	NON-DIVIDEND MINES. Shares. Mines. Paid. Last Pr.	Ruo Acma
	Shares. Mines. Paid. Last Pr. 2562 Abraham Cons., t, c, Crowan 1 7 0 — 4000 Ballacorkish, I. of Man, l, c*. 3 10 0 —	··
oaid.	4000 Bedford Consols, c, Taylstock 2 15 0 — 4000 Bedford United, c, Taylst.* 2 10 8 —	
1868 1866	1031 Bedol Aur, l, Holywell 1 17 0 — 1248 Boscaswell, t, c, St. Just 7 6 0 —	:
1868 1868	5000 Bottle Hill, t. Plympton 1 14 6	
1866 1868	5000 Bryn Gwyn / Moldat 9 0 0 -	
1868 1868	1000 Budnick Consols, c 1 0 0 — . 5094 Bwich Consols, s-l, Cardigan 4 0 0 —	•
1867 1867		
1868 1867	1000 Camborne Consols, c 18 10 0 —	pd.]
1868 1867		
1868 1868	4005 Cardigan Consols* 5 0 0 — 600 Cardiganshire, l* 17 10 0 —	:
1867 1867	6000 Carn Camborne, c. Cambrn. 2 6 0. — 4005 Cardigan Consol. 5 0 0. — 600 Cardiganshire, l* 17 10 0. — 20000 Carysfort [3200 £2½ pd., 16800 £1½ pd.] 2500 Central Minera, i, Wrexham* 3 17 6. —	:
1866 1868		: 41/2 5
1868 1868	256 Condurrow, c, t, Cambornet 76 10 0	:
1868 1866	50000 Connorree, c, sul, Wicklow*. 1 0 0 — . 983 Copper Hill, c, Redruth‡ . 12 10 0 — . 1055 Copper Hill, c, Redruth‡ . 12 10 0 — .	: 4
1868 1868	1055 Craddock Moor, c, St. Cleer: 13 4 0 — 12000 Crelake, c, Tavistock 3 12 0 — .	:
1868 1868	983 Copper Hill, c, Redruth; 12 10 0. — 1055 Craddock Moor, c, St. Cleer; 13 4 0. — 12000 Crelake, c, Tavistock 3 12 0. — 6000 Cuddra, t, St. Austell 5 5 0. — 25000 Dundalk, Ireland, t* 0 15 0. — 740 Eaglebrook, l, Talybont* 19 15 0. — 7400 East Bostle Hill, t 10 11 0. — 6000 East Bottle Hill, t 10 11 0. — 4000 East Chiverton, l, Perranz 2 19 3 . — 4000 East Laxev, L, Isle of Man. 2 15 0. 11/4.	:
$1866 \\ 1868$	1000 East Basset and Grylls, t 3 5 0	: 2
1867 1868	4000 East Chiverton, l, Perrauz. 2 19 3 4000 E. Gunnislake & S. Bed. c 10 15 0 114.	
1868	2000 Floor Montane a Monarton	
1867 1868	5000 East Septune, c, t, Gwinear 2 17 0 6000 East Snacfell, l, I. of Man*. 2 10 0. 1½.	1 11/4
1868 1868	5610 East Seton, c, Camborne 0 13 6 —	1/2 1/4
1868	6610 East Seton, c, Camborne. 0 13 6. — 1190 E. Wh. Agar, c, St. Cleer . 12 17 0. — 5000 E. Wh. Rose Con. l, Per.* 2 5 0. — 6000 Ebry Lead Min. Co., Flint* 1 15 0. — 6000 Fortescue Cons, c, Tavistock 0 12 6. — 940 Fowey Con, c, Tavistock 0 12 6. — 1026 Garden, c, Morvah 6 0 3. — 6000 Gen. Min. Co. for Ireland, c 5 10 0. — 10000 Glan Alun, l, Mold 0 6 0. — 40000 Glasgow Caradon c*[30000 £] pd., 1000015.pd. 5700 Goglana, Card[gan, l 12 10 0 . —	
1868	6000 Fortescue Cons., c, Tavistock 0 12 6	
1868 1867	1026 Garden, c, Morvah 6 0 3	
1868 1868	10000 Glan Alun, l, Mold 0 6 0 — .	78. 88.
1866	5700 Goginan, Cardigan, 1 12 10 0	
1868	5700 Goginal, Cardigan*. 2 10 0	
1868 1868	4096 Great Caradon, c, St. Ive 3 19 0 — 3000 Gt. Chiverton, s-l, Perranz.* 3 10 0 —	
1867 1868	5000 Great Mona, l, Isle of Man* 4 0 0 — 12500 Gt.No. Laxey(Isle of Man)* 0 15 0 —	
	12500 Gt.No.Laxey(Isleof Man)*. 0 15 0. — 1000 Great N. Tolgus, c, Illogan. 10 0 0. — 15000 Great Rhosesmor, t. 5 0 0. — 6000 Gt.S.Chiverton, s-l, Perranz 1 13 0. — 3313 Gt.Wh. Baddern, t, Devoran 7 17 6. — 119 Great Work, t, Germoe 100 0 0. — 10240 Gunnislake (Clitters'), t, c. 4 19 0. — 6068 Gwdyn Park, L Llanryst 14 6. —	
1868 1867	6000 Gt.S.Chiverton, s-l, Perranz 1 13 0 — 3313 Gt.Wh. Baddern, t, Devoran 7 17 6 —	
1868	119 Great Work, t, Germoe 100 0 0 — 10240 Gunnislake (Clitters'), t, c 4 19 0 —	
1868 1868		
1867 1867	1000 Hematite Iron Company* 5 0 0 2500 Laxey Neath Smelting Co.* 3 10 0	
1868	2020 Houstale Hon Co. 1000 30 pu., 1010 30 pu. 1	
ly.	5120 Lovell Consols, Wendron, t. 0 4 0 — 6000 Maudlin, c, Lostwithiel 4 7 0 —	
1867	6000 Mid-Wales, s-l,* 2 4 0 1000 Montgomeryshire, l, b* 2 0 0	
867	6000 Maudiln, c, Lostwithiel 4 7 0 6000 Mid-Wales, s-t, 2 4 0 0 1000 Montgomeryshire, t, b* 2 0 0 0 640 Mount Fleasant, t, Mold 4 0 0 12800 Nether Hearth - [6100 £1 pd., 6400 2s. pd.]	
1868 866	1500 New Chiverton, l, Perranz 0 9 6 —	
1866	24000 New Cornish [12000 £1 pd., 12000 las, pd.]	
all.	20000 New Gt. Cons. c. Taylstock 0 12 6 —	
1866	3000 New Huntingdon, t, Devon. 0 10	
868	6000 New Prosper, t, c, St. Hilary 0 10 0	
1868	667 New Trevenen, t, Wendron, 12 1 6 — 4096 New Wh. Lovell, t, Wendron 1 14 0 —	
1868	5000 No. Dolcoath, c, Camborne 4 3 0 —	
1866	1361 No. Grambler, c, Redruth 8 17 3 —	
1866 1866	4000 No. Phonix, c, Linkinhorne 4 11 0 —	
pd. 868		
pd. 862	1022 No. Shepherds, I, Newlyn*s. 6 10 0. — 6000 North Wheal Basset, c, t*s. 5 0 0. — 6144 N.W. Robert, c, Smp. Spiney 4 8 11. — 12288 Okel Tor, c, Calstock 2 7 4. 4 8000 Old Glunnislake, c, Calstock 2 15 0. — 6400 Par Consols, c, 8t. Blazeyt; 2 14 6. — 6400 Par Gorgo Care, St. Lyn. 7 1 7 7 7 7 7 7 7 7	
868	6144 N.W. Robert, c, Smp. Spiney 4 8 11. — 12288 Okel Tor, c, Calstock 2 7 4. 34.	
1867	8000 Old Gunnislake.c, Calstock. 2 15 0. — 6400 Par Consols, c, St. Blazey†‡. 2 14 6. —	
pd.	4000 Penhale United, s-l, Perran.* 0 15 0 –	
867 866	2720 Penhale Wh. Vor, t, c, Breage 5 2 6	
pd. 867	19000 Redmoor c. t Callington 1 17 6	
868	6000 Reinnie Laxey, I, I. of Man*. 4 10 0	
867	2000 Rosecliff and Tolcarne, l* 9 10 0 — 3973 Rosewarne Cons., c, Gwinear 7 2 6 —	
pd.	5915 Rosewall Hill & Ransom, c 3 5 0 — 10000 Royalton, t, St. Columb 1 1 0 —	
pd.	20500 Snaefell, l, Isle of Man* 1 0 0 — 12000 Sortridge Cons., c, Tavistk.† 1 18 6 —	
pd.	3000 So. Chiverton, s. l. Perranz. 6 2 6 —	
=	6000 S.Dolcoath & Carnarth. Con. 2 16 6 — 6000 So. Fowey, c, Tywardreath. 0 10 0 —	
	3395 So. Herodsfoot, I, Liskeard. 4 10 0. 30210 South of Scotland, c* 1 0 0	
all. 867	30210 South of Scotland, c* 1 0 0	15 17
867 d.	6000 South Wheal Grenville, t, c 1 3 0 — 400 So. Wh. Seton, c, Camborne 81 3 0 —	
868 867	6000 South Wheat Greaving, f, c., 1 3 0	
867 866 866	8771 St. Just Amalg., 4, * [5000 £3 10s. pd., 2771 £2 300 Steeple Aston Iron Ore Co 7 0 0 1034 7000 Stiperstones, 1, Salop* 5 10 0 3500 Tin Hill, 4, St. Austoll 1 12 0 501 Tresavean and Trethurrup. 16 11 0 4440 Trevenen & Tremenheere 7 11 0 4096 Trewetha. s-l. Menhemiot. 7 17 0 114	5s. pd.
868 868	7000 Stiperstones, <i>l</i> , Salop* 5 10 0— 3500 Tin Hill, <i>t</i> , St. Austell 1 12 0—	
868	501 Tresavean and Trethurrup 16 11 0 — 4440 Trevenen & Tremenheere 7 11 0 —	- 1
868	4440 Trevenen & Tremenneere 7 11 0 4096 Trewetha, s-l, Menheniot 7 17 0 1½ 1943 Treworlls, t, Wendron 11 15 4	
868	4200 Vigra and Clogau, c, Dolg. *‡., 5 10 0 — 1319 West Cwm Eran, l* [319 £4 paid] —	2
868	12000 W. Maria & Portes, C, Lam. 8 11 6	1.0
868 868	1000 West Rose Down, c, Linking. 20 17 6	
868 860	4096 W. Wh. Tremayne, c, St. Erth 0 60	45 48
866 867	741 Wheal Basset and Grylls, t 7 18 6 — 6000 Wheal Crebor, c, Tavistock. 2 6 6 — 4000 Wh. Emma, c, Buckfastleigh 3 19 0 —	
867 867	4000 Wh. Emma, c, Buckfastleigh 3 19 0 — 6000 Wheal Emily, s, Callington 0 1 0 — 6000 Wheal Ida, s-l, St. Ive 1 5 6 —	
868 868 867	6000 Wheal Ida, s-l, St. Ive 1 5 6 — 1024 Wh. Kitty, t, Uny Lelantt 3 10 6 — 896 Wh. Margaret, t, Uny Le.‡. 13 17 6 6	5 6
868	728 Wheal Margery, St. Ives, t, c 27 4 0 — 6000 Wheal Mary Florence, c* 2 4 0 —	
866 867	1000 Wh.MaryHutchins,c,Plymp. 2 0 6	
868 868	6000 Wheal Sparnon, c, Redruth. 3 15 0 — 1920 Wh. Trannack, c, Sithney. 1 13 3 —	
866 865	1200 Wheal Trevenna, t, c* 10 0 0	00
868	MISCELLANEOUS.	-43
867 868 868	60000 Anglo-American Telegrh.*† 10 0 0 — 10000 Arklow Chemical Works, l. 1 0 0 —	23 20
-0.02	I U Use - se	

b, blende; cl, coal; c, copper; g, gold; l, lead; s, silver; sl., slate; s-l, silver-lead; t, tin; z, zinc.

. Companies marked thus * have been incorporated with Limited Liability; those marked † have been admitted on the Stock Exchange, those marks thus ‡ have paid Dividends.

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